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# THE CHEMIST AND DRUGGIST

TELEPHONE NUMBER: BANK 852 (two lines).

*Established in* ENGLAND, 1859.]

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Published Weekly at 42 CANNON STREET, LONDON, E.C.

TELEGRAPHIC ADDRESS: "CHEMICUS, CANNON, LONDON." [Charged as two words only.]

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Subscription, 10s. per annum, including Diary. Free the World over. Single Copies, 6d. each. Winter and Summer Issues, 1s. each. Post Free.



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**Compound Syrup of Figs**

*ARE INVITED TO WRITE FOR SAMPLES AND TERMS.*

A Distinct Style of Label can be reserved for a Chemist in his Locality. Special Prices to buyers in quantities forwarded on request.

**ALLEN & HANBURYS Ltd., LONDON**


*Index and Buyers' Guide, pp. 5, 6, 7, 8, and 9.*

# May, Roberts' Traveller.

No. 4023 CITY. JUNE 13, 1914. LONDON & DUBLIN.

## SUNDRIES ON APPRO.

It is somewhat amusing to look back and remember how we were told that each and every departure we made from accepted custom was to lead to certain ruin.

When our original offer of sending parcels of Sundries and Packed Goods on approval was made we were assured by certain prophets that it wouldn't pay. Lack of confidence in our goods or in our own ideas was never our weak point, however, and we believed that ours was the only certain way of demonstrating to our customers that they could buy Sundries with as complete assurance from the illustrations and descriptions in our Price List as if they had actually seen the goods.

The giving of Free Packages was another case in point. The amount of free advice, which differs from free packages in that it costs the giver nothing, was prodigious. We were positively snowed under by pessimistic prognostications, and yet to-day the number of our imitators shows how appreciative the Chemists were of the innovation.

## NO TRAVELLERS.

Then there was the question of "No Travellers." A large trade in Sundries and Packed Goods was, we were told, quite impossible without Travelling Salesmen, since no Chemist would run the risk of buying Sundries unless he had seen them. Well, we had no prejudice against travellers, except in so far as they cost money, but since the whole policy of the May, Roberts' Service is to save the Chemist money and so secure his orders we calculated the experiment to be worth the risk.

On the one hand there was the obvious saving in expense, the benefit of which we were prepared to give to the Chemist, and on the other, since time is money, we argued his time would be more profitably spent interviewing customers than travellers.

The success of the scheme depended entirely upon whether we could convince prospective customers that our Sundries were not only cheaper, but better, than they could buy elsewhere, and the best way to do this was to agree to take the goods back if they were not satisfied.

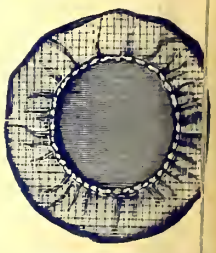
The scheme has been a complete success.

## OUR OFFER.

We are still trading on the same principle, and any customer can, if he wishes, place an order for Sundries and Packed Goods on appro. for fourteen days, and can send back carriage forward any of the goods he does not wish to keep.

**BATHING CAPS**

belong to a class of articles which we frequently send out on approval.



This Cap is our No. 18 Turkey Red Twill at **4/-** per dozen, which is in great demand for cheap trade. We can also recommend

| | | |
|---|---|---|
| No. S11, Check Cambric | ... | **7/9** per doz. |
| No. S130, Saxe Blue | ... | **8/-** per doz. |
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| No. S19, Sateen, superior quality | | **9/6** per doz |

**TOILET PREPARATIONS.**

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|---|---|---|
| 8 oz. size | ... ... ... | **3/6** per doz. |
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# SOUTH AFRICAN JUSTICE.

## THE

# MYSTERY EXPLAINED

## (TABLEAUX VIVANTS).

# CONTENTIONS:

of Mr. Thomas Hannah, Apothecary, Chemist and Druggist, of Amersfoort, Transvaal, before the Judicial Committee of the Privy Council sitting on May 26, 1914, and consisting of the Lord Chancellor (Viscount Haldane), Lord Moulton, Lord Parker, Lord Sumner, and Sir Joshua Williams, namely :—

1. That Section 39 of Ordinance 29, 1904, of the Transvaal covers only fraudulent practice, and nothing else.
2. That it does not prohibit bona-fide practice, otherwise it would wipe out of existence all other schools or systems of medicine or healing other than allopathic or the orthodox system.
3. That the dictum that nothing is unlawful until prohibited by Act of Parliament in express terms being *unimpeachable*, it is not unlawful for unqualified or unregistered practitioners to practise.
4. That Section 39 does not define the functions of the various callings enumerated therein : that the functions of the various callings are not defined in any law extant, and that therefore we cannot allocate any given act to any particular calling until a name or title shall have been assumed, and hence we cannot *prove* that a person has practised any specific calling if he has not assumed a name or title indicating which particular calling he is practising.
5. That every practitioner is known by his degree or diploma to enable people to distinguish the quality or kind of his education and training.
6. That a "Chemist and Druggist" is a "General Medical Practitioner," for he practises Pharmacy, Medicine, Surgery, Dentistry, Optics, etc., and has done so for succeeding generations, and from time immemorial, there being no law to the contrary, and the dictum that nothing is unlawful until prohibited by Act of Parliament in express terms being unimpeachable.
7. That it is for the Legislature to make or amend law. If it is desired to allocate certain functions to any particular calling, and to deprive others of certain privileges, it will be necessary to legislate to that effect. We cannot expect the Courts to do so for us.
8. That there is nothing in the Ordinance to prevent anyone whomsoever from practising Medicine, Dentistry, or Pharmacy, and accepting payment, provided he does not assume misleading names or titles.
9. That the Courts will not enforce payment until a practitioner is registered, which means, "*legally and officially recognised as qualified.*"
10. That the Ordinance is definite and equitable, *giving no class of practitioner an undue advantage over another.*
11. That Section 39 prevents the false assumption of names or titles, and thus safeguards the public against fraud from both qualified and unqualified persons, as far as possible.
12. That the offence of Fraudulent Practice is "one offence" only, and punishable by a maximum penalty of £100 or six months' imprisonment, and that this penalty is not cumulative.
13. That the prosecution was bound to prove the charges against me.
14. That there was no *proof* before the Circuit Court that I had practised as a doctor, dentist or chemist, as charged in the indictment.
15. That the indictment stated no offence.
16. That the Act enacts, to put it shortly, that there should be a Register, and that persons who can get on that Register must have certain qualifications.

---

These Contentions afford a lucid rendering of the much vexed question of Medical, Dental, and Pharmacy practice, and is calculated to make easy the passage of the long delayed Bill through the Union Parliament.

# What is increasing profits for the Chemists who testify below, will do the same for you.

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March 9, 1914.

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*Glam.*

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The special insurance feature is also a good one, as it acts as a check on the prescriptions, and we know every day how many we have dispensed without having the trouble to count them.

March 16, 1914.

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Using a National Cash Register means so much to your business that you cannot afford to longer delay investigation. Our new booklet, with particulars, will help you. Ask us for it—no obligation to buy. We are ready to help you now. *To-day* there are "Nationals" to suit all sizes of businesses. Adding Registers from **£8.** Easy Terms of Payment. Autographic Tills from **30 -.**

*Cut out, or send postcard mentioning this advertisement.* **COUPON.**

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*Name* .....

*Address* .....

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4. It is sold at popular prices, and always gives the highest satisfaction.
5. It yields good profit, so there's good business in it for you.

*Handsome Window Models, Counter Caskets, Showcards, Dummies, Sales-creating Literature sent free on application to:—*

**Ecsōlent Compounds, Ltd., Ecsōlent Buildings, London, N.**

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**CHLORIDE OF LIME**
Brunner, Mond & Co., Ltd.

**CHLORODYNE**
Davenport, J. T., Ltd.

**CHLOROFORM**
Burroughs Wellcome & Co.
Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Smith, T. & H., Ltd.

**CIGARS AND CIGARETTES**
Singleton & Cole, Ltd.

**CITRIC ACID AND CITRATES**
British Drug Houses, Ltd., The
Burgoyne, Burbidges & Co.
Howards & Sons, Ltd.
Sturge, John & E., Ltd.

**CLINICAL THERMOMETERS**
Burge, Warren & Ridgley, Ltd.
Bush, H. W., & Co., Ltd.
Hicks, James J.
Maw, S., Son & Sons
Perken, Son & Co., Ltd
Pillischer, J.
Powell, J. T., & Co.
Zeal, G. H.

**CLOTH BALLS**
O'Neil, Zetts & Co.
Senier, Alf., & Co.

**COAL TAR SPECIALITIES**
Wright, Layman & Umney, Ltd.

**COCAINE**
Boehringer, C. F., & Soehne
Buchler & Co.
Merck, E.

**COCKROACH PASTE**
Howarth & Fair

**COCOA**
Cadbury Bros., Ltd.
Plasmon, Ltd.

**COD LIVER OIL**
British Drug Houses, Ltd., The
Bugge, Johann, & Co.
Evans Sons Lescher & Webb,Ltd.
Southall Bros. & Barclay, Ltd.
Sparks, White & Co., Ltd.
Wright, Layman & Umney, Ltd.

**COLLAPSIBLE TUBES**
Betts & Co., Ltd.

**COMBS**
Gripwell
Hovenden, R., & Sons, Ltd.
Simplex Conduits, Ltd.

**COMPLEXION SPECIALITIES**
Adair, Mrs.

**CONDENSERS**
Bennett, Sons, and Shears, Ltd.

**CONFECTIONERY, MEDICATED**
Guest, Thos., & Co.
Pascall, James, Ltd.

**CONTINENTAL PROPS.**
Bresillon, M., & Co.
Kopp & Joseph
Roberts & Co.
Schaoht, Warner & Co.
Wilcox, Jozeau & Co.

**COPPERSMITHS**
Braithwaite, H., & Co.

**CORKS**
Mitchell, N. W., & Sons, Ltd.

**CORN EXTERMINATOR**
Gardner

**CORN PLASTERS**
Beiersdorf, P., & Co.
Solport Bros.

**CORRUGATED PAPER**
Brightling, Geo. C., & Co., Ltd.

**COUNTER ADJUNCTS**
Evans Sons Lescher & Webb,Ltd.

**COUNTER SPECIALITIES**
Allen & Hanburys, Ltd.
British Drug Houses, Ltd., The
Burgoyne, Burbidges & Co.
Curling, Geo., Wyman & Co.
Hewlett, C. J., & Sons, Ltd.
Southall Bros. & Barclay, Ltd.
Wright, Layman & Umney, Ltd.

**COUNTING AND FILLING MACHINE**
Forgrove Machinery Co., Ltd.

**COURT PLASTER**
Solport Bros.

**CREOSOTE**
Baiss Bros. & Stevenson, Ltd.
Morson, T., & Son

**CREPE BANDAGES**
Gimber, W., & Son
Burge, Warren & Ridgley, Ltd.
Norwich Crepe Co. (1856), Ltd.
Wood, Vincent

**CYANIDES**
May & Baker, Ltd.

**DAIRY SPECIALITIES**
Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.
Tomlinson & Hayward, Ltd.

**DENTAL MECHANICS**
Fentiman, A. G.
Fentiman, A. J., & Co.
Halder, E. C.
Templar Malins, Ltd.
Wardale, F. C., & Co.

**DENTAL TOOLS, &c.**
Claughtons (Leeds), Ltd.
Edwards' Dental Mfg. Co., Ltd.

**DENTIFRICES**
Beecham, T.
Bell (John), Hills & Lucas, Ltd.
Beiersdorf, P., & Co.
Berliner, Arthur
Blackie, Robert
Calvert, F. C., & Co.
Christy, T., & Co.
Cook, E., & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Eucryl, Ltd.
Gibbs, D. & W., Ltd.
Hayden Coffin T. P.
Jewsbury & Brown
McKesson & Robbins
Maw, S., Son & Sons
Odol Chemical Works
Parke, Davis & Co.
Standard Tablet & Pill Co., Ltd.
Woolley, J., Sons & Co., Ltd.

**DEVELOPERS (PHOTO)**
Evans Sons Lescher & Webb,Ltd.
Express Developing Co.
Johnson & Sons (Mfg. Chts.), Ltd.

**DEXTRINE**
Fink, F., & Co.

**DIABETIC FOODS**
Scott, R. M.
Van Abbott, G., & Sons

**DIGESTIVE PRODUCTS**
Fairchild Bros. & Foster

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Baiss Bros. & Stevenson, Ltd.
Burt, Boulton & Haywood, Ltd.
Calvert, F. C., & Co.
Chemical Union, Ltd.
Condy & Mitchell, Ltd.
Cook, E., & Co., Ltd.
Ellison, Henry, Ltd.
Sanitas Co., Ltd.
Stevenson, H. E., & Co.
Willowes, Francis B. & T., Ltd.
Wright, Layman & Umney, Ltd.

**DISINTEGRATORS**
Hardy Patent Pick Co., Ltd.

**DRUGGISTS' SUNDRIES**
Ayrton, Saunders & Co., Ltd.
Barclay & Sons, Ltd.
Berliner, Arthur
Brook Parker & Co., Ltd.
Brytstele Manfg. Co.
Burge, Warren & Ridgley, Ltd.
Bush, H. W., & Co., Ltd.
Edwards, W., & Son
Evans Sons Lescher & Webb,Ltd.
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd
Poths, H., & Co.
Quelch, H. C., & Co.
Sangers
Schutze, F., & Co., Ltd.
Solport Bros.
Southall Bros. & Barclay, Ltd.
Swales, Thomas
Toogood, W., Ltd.
Tozer, J. V.
Wattenbach, O.
Woolley, J., Sons & Co., Ltd.
Zinser, Alberto

**DRUGS, CRUDE**
Burkett, Sharp & Co.
Gathergood's Exor.
Goodall, Backhouse & Co.
Potter & Clarke, Ltd.
Raimes & Co.
Schmitt & Wildenhayn
Zinser, Alberto

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Fulham Pottery and Cheavin Filter Co., Ltd.

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Bronnley, H., & Co., Ltd.
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Farina, J. M. (No. 4)
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Birmingham & Midland College
Charleston, J.
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Elt's College
Glasgow School of Pharmacy
Liverpool School of Pharmacy
London College of Pharmacy
North of England School
Northern College of Pharmacy
Rance, Miss E.
South of England College
Westminster College

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Allen & Hanburys, Ltd.
Ayrton, Saunders & Co., Ltd.
Bishop, Alfred, Ltd.
Blyton, Astley & Co.
Bristol Myers Co.
British Drug Houses, Ltd., The
Cupal, Ltd.
Evans Sons Lescher & Webb,Ltd.
Guest, Thos., & Co.
Kerfoot, Thos., & Co.
Lorimer-Marshall, Ltd.
Shirley Bros., Ltd.
Wright, Layman & Umney, Ltd.
Wyleys, Ltd.

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Ayrton, Saunders & Co., Ltd.
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Haywood, J. H., Ltd.
Maw, S., Son & Sons
Wood, Vincent

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Evans Sons Lescher & Webb,Ltd.
Millard Bros., Ltd.
Simplex Conduits, Ltd.
Tokalon, Ltd.
Ward & Goldstone
Wright, Archd. J., Ltd.

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Oakey, J., & Sons, Ltd.

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Wilkinson, S. W., & Co.

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Baiss Bros. & Stevenson, Ltd.
Blackie, Robert
Boulton Macro, Ltd.
British Drug Houses, Ltd., The
Fanlding, F. H., & Co.
Parke, Davis & Co.
Scott & Bowne, Ltd
Stevenson, H. E., & Co.
Wyleys, Ltd.

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Fletcher, Fletcher & Co., Ltd.

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Warne, W., & Co., Ltd.

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Alliance Drug & Chem. Co.
Barnett & Foster
Boake Roberts, A., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Hay, Wm., Ltd.
London Essence Co.
Sinalco Co.
Stevenson & Howell, Ltd.
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Howards & Sons, Ltd.
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May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
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British Drug Houses, Ltd., The
Stevenson, H. E., & Co.
Tasmanian Eucalyptus Oil Co.
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Newball & Mason
Potter & Clarke, Ltd.
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Tunbridge & Wright
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Fletcher, Fletcher & Co., Ltd.
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Horlick's Malted Milk Co.
Lofthouse & Saltmer, Ltd.
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Numol, Ltd.
Patermann Bros.
Plasmon, Ltd.
Ridge's Royal Food Mills
Sister Lauras Infant Food Co.
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Willows, Francis B. & T., Ltd.
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Sangers
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Thackeray Hotel
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Ichthyol Gesellschaft
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Keating, Thomas
Potter & Clarke, Ltd.
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Ransom, W., & Son, Ltd.
**LAVENDER WATER**
Bush, W. J., & Co., Ltd.
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Merck, E.
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Mumford, G. S., & Sons
Solazzi
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Raimes & Co.
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Stokes, F. J., Machine Co.
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Ayrton, Saunders & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Henry, T. & W.
Howards & Sons, Ltd.
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Tokalon, Ltd.
Washington Chemical Co., Ltd.
Wigglesworth & Co.
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Blackie, Ltd.
Boulton Macro, Ltd.
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Burroughs Wellcome & Co.
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Davies, Sons & Co.
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Preston's Liverpool Distillery Co., Ltd.
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Nestlé's
**MILK SUGAR**
Hollandsche Melksuikerfabriek
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Ingram & Royle, Ltd.
Vichy-Celestins
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Tilling, Thomas, Ltd.

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Blyton, Astley & Co.
Rueff, Julius
**MUSTARD SEED OIL**
Johnson, J. H. & S.
**NAIL POLISH PAPER, &c.**
Pharm. Ind. Ges. Offenbach
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Burt, Boulton & Haywood, Ltd.
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Campbell, J. D.
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Boake Roberts, A., & Co., Ltd.
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Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
Evans Sons Lescher & Webb,Ltd
Jakson, John, & Co.
London Essence Co.
Lueders, George, & Co.
Poppelreuter, W.
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Curling, Geo., Wyman & Co.
Davies, Sons & Co.
Evans Sons Lescher & Webb,Ltd
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Blyton, Astley & Co.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb,Ltd
Guest, Thos., & Co
Kerfoot, Thomas, & Co
Warrick Bros., Ltd.

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Raworth, John E.

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Christy, T., & Co.
Erasmic Co., Ltd.
Evans Sons Lescher & Webb,Ltd
Fickus, Courtenay & Co.
Lescol Perfumery Co.
McCracken, J. & R.
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Potter & Clarke, Ltd.
Price's Co., Ltd.
Prichard & Constance, Ltd.
Quelch, H. C., & Co.
Raynaud, Claude, & Cie
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Southall Bros. & Barclay, Ltd.
Vinolia Co., Ltd.
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**PERLES**
Tye, John, & Son

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Merck, E.

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Johnson & Sons (Mfg.Chts.),Ltd

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Bell (John), Hills & Lucas, Ltd.
Bow's Liniment, Ltd.
Bressillon, M., & Co.
Burgess, E.
Chemische Fabrik von Heyden
Christy, T., & Co.
Coleman & Co., Ltd.
Corbyn, Stacey & Co., Ltd.
Crimson Cross Dispensary
Cupal, Ltd.
Daisy, Ltd.
Davenport, J. T., Ltd.
Dearborn, Ltd.
De Roos, Johnson & Co.
Duncan, Flockhart & Co.
Ecsolent Compounds, Ltd.
Edwards, W., & Son
Evans Sons Lescher & Webb,Ltd.
Expurgo Manfg. Co.
Fellows' Med. Manfg. Co.
Fennings, Alfred
Ferris & Co., Ltd
Fulford, C. E., Ltd.
Goodall, Backhouse & Co.
Gotar, Ltd.
Harrison, Geo. W.
Henry, T. & W.
Hommel's (Dr.) Haematogen
Ichthyol Gesellschaft
International Laboratories
Kay Bros., Ltd.
Kutnow, S., & Co., Ltd
Kyko Proprietary, Ltd.
London Proprietary Co.
May, Roberts & Co., Ltd.
Midland Drug Co.
Mumford, G. S., & Sons
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Oppenheimer, Son & Co., Ltd.
Owbridge, W. T., Ltd.
Phillips, Chas. H., Chem. Co.
Primer, J.
Resinol Chemical Co.
Saccharin Corporation, Ltd.
Sanalak, Ltd.
Sangers
Santag Co.
Schimmel & Co.
Scott & Bowne, Ltd.
Squire & Sons, Ltd.
Standard Tablet & Pill Co., Ltd
Stedman, J. H.
Thompson & Capper, Ltd.
Tokalon, Ltd.
Tozer, Jas. V.
Transatlantic Ex. and Imp. Co.
Tunbridge & Wright
Warrick Bros., Ltd.
White, A. J., Ltd.
Wilcox, Jozeau & Co.
Woodward, W., Ltd.
Wright, Layman & Umney, Ltd.

**PUFFS**
Solport Bros.

**PUMPS**
Berkefeld Filter Co., Ltd.

**QUININE AND SALTS**
Alliance Drug & Chem. Co.
Boehringer, C. F., & Soehne
Buehler & Co.
Corbyn, Stacey & Co., Ltd.
Howards & Sons, Ltd.

**RADIUM AND SALTS**
Buehler & Co.
Hopkin & Williams, Ltd.

**RAZORS**
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Maw, S., Son & Sons
Wright, Archd. J., Ltd.

**RENNET ESSENCE, POWDER, &c.**
Lorimer-Marshall, Ltd.

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Allen, S., & Sons, Ltd.
Macfarlan, J. F., & Co.
Morson, T., & Son
Ransom, W., & Son, Ltd.
Smith, T. & H., Ltd.

**RESPIRATORS**
Zimmer & Co.

**RUBBER GOODS**
Berliner, Arthur
Burge, Warren & Ridgley, Ltd.
Haywood, J. H., Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Tompkins, J., Ltd.
Warne, W., & Co., Ltd.

**RUBBER STAMPS**
Richford, C. D.

**SACCHARIN**
Saccharin Corporation, Ltd.

**SANTONIN**
Merck, E.
Smith, B. A., & Co.

**SAPONIN**
Field, C. W.

**SCIENTIFIC APPARATUS**
Perken, Son & Co., Ltd.
Pillischer, J.
Reynolds & Branson, Ltd.

**SEA SALT**
Tidman & Son, Ltd.

**SEED-DRESSING**
Hawker, Arthur E.
Tomlinson & Hayward, Ltd.

**SEEDS**
Potter & Clarke, Ltd.

**SERUMS AND ANTITOXINS**
Allen & Hanburys, Ltd.
Burroughs Wellcome & Co
Evans Sons Lescher & Webb,Ltd
Parke, Davis & Co.
Schimmel & Co.
Wilcox, Jozeau & Co.

**SHAMPOO POWDERS**
Standard Tablet & Pill Co.,Ltd.

**SHARES**
McAdam & Tucknise

**SHEEP DIPS**
Burt, Boulton & Haywood, Ltd.
Chemical Union, Ltd.
Tomlinson & Hayward, Ltd.

**SHOP FITTINGS**
Ayrton-Graham, Ltd.
Evans Sons Lescher & Webb, Ltd
Grant, D.
Harris & Sheldon, Ltd.
Josephs, Philip, & Sons, Ltd.
Maw, S., Son & Sons
Mills, H.
Parnall & Sons
Rudduck & Co.
Sangers
Southall Bros. & Barclay, Ltd.

**SHOULDER STRAPS**
Wood, Vincent

**SHOWCARDS**
Bell Advertising Co., Ltd.

**SILVERWARE TOILET GOODS**
Scott, Adolph

**SOAP-MAKING PLANT**
Forshaw, E., & Son, Ltd.

**SOAPS, TOILET, &c.**
Allen & Hanburys, Ltd.
Armour & Co., Ltd.
Bell (John), Hills & Lucas, Ltd.
Bronnley, H., & Co., Ltd.
Calvert, F. C., & Co.
Chesebrough Manfg. Co.
Christy, Thos., & Co.
Cook, E., & Co., Ltd.
Erasmic Co., Ltd.
Eucryl, Ltd.
Evans Sons Lescher & Webb, Ltd
Field, J. C. & J., Ltd.
Fulford, C. E., Ltd.
Gibbs, D. & W., Ltd.
Harrison, G. W.
Hovenden, R., & Sons, Ltd.
Lescol Perfumery Co.
McClinton's, Ltd.
Pears, A. & F., Ltd.
Price's Patent Candle Co., Ltd.
Providol Company
Resinol Chemical Co.
Wright, Layman & Umney, Ltd.

**SODIUM BICARBONATE**
Brunner, Mond & Co., Ltd.
Howards & Sons, Ltd.
Mumford, G. S., & Sons

**SOOTHERS**
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Schutze, F., & Co., Ltd.

**SPECTACLES**
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Gunther Opt. Co.,Ltd.

**SPERMACETI**
Price's Patent Candle Co., Ltd.

**SPHYGMOMETERS**
Hicks, James J.

**SPICES**
Goodall, Backhouse & Co.

**SPIRIT OF WINE**
Burrough, J., Ltd.
Calder, James, & Co., Ltd.
Preston's Liverpool Distillery Co., Ltd.

**SPONGES**
Internl. Sponge Importers, Ltd.

**SPRAYS**
Benton & Stone, Ltd.
Burge, Warren & Ridgley, Ltd.
Christy, Thos., & Co.
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
Parke, Davis & Co.
Sangers
Toogood, Wm., Ltd.

**SPRINKLER CORKS**
Betts & Co., Ltd.

**SPRUCE BEER**
Hobson, Joseph, & Son

**STARCH**
Mumford, G. S., & Sons

**STILLS**
Bennett, Sons & Shears, Ltd.
Forshaw, E., & Son, Ltd.
Stokes, F. J., Machine Co.

**STOPPERS**
Stipendum Stopper Co.

**SURGICAL APPLIANCES AND DRESSINGS**
Allen & Hanburys, Ltd.
Berliner, Arthur
Burgoyne, Burbidges & Co.
Burroughs Wellcome & Co.
Carnegie Bros.
Dalmas, A. de St., & Co.
Davis, John Morgan, & Sons
Galen Manfg. Co., Ltd.
Gimber, W., & Son
Haynes, G., & Co.
Liverpool Lint Co.
Macfarlan, J. F., & Co.
Mason Bros. & Chapman
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Quelch, H. C., & Co.
Reynolds & Branson, Ltd.
Robinson & Sons, Ltd.
Southall Bros. & Barclay, Ltd.
Van Horn & Sawtell
Vernon & Co., Ltd.
Warne, W., & Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co., Ltd.

**SUSPENSORY BANDAGES**
Bailey, W. H., & Son

**SYPHONS**
Barnett & Foster
Camwal, Ltd.
Idris & Co., Ltd.
Pure Aeration Supply, Ltd.
Sharman's Pat. Syphon Co.,Ltd.

**SYRINGES**
Bush, H. W., & Co., Ltd.

**SYRUPS, MEDICINAL**
Fellows' Med. Mnfg. Co.
Sinalco Co.

**TABLET MACHINERY**
Allen & Hanburys, Ltd.
Bennett, Sons & Shears, Ltd.
Thompson & Capper, Ltd.
Wilkinson, S. W., & Co.

**"TABLOID" PRODUCTS**
Burroughs Wellcome & Co.

**TAP JARS**
Fulham Pottery & Cheavin Filter Co., Ltd.

**TABLETS, COMPRESSED**
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Bishop, Alfred, Ltd.
Blyton, Astley & Co.
British Drug Houses, Ltd., The
Brook, Parker & Co., Ltd.
Burgoyne, Burbidges & Co.
Cartwright, W. B., Ltd.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Duncan, Flockhart & Co.
Evans Sons Lescher & Webb, Ltd
Guest, Thos., & Co.
Howards & Sons, Ltd.
Jackson, Ernest, & Co.
Johnson & Sons (Mfg. Chts.), Ltd.
Lloyd, H., & Co., Ltd.
Parke, Davis & Co.
Standard Tablet & Pill Co.,Ltd.
Thompson & Capper, Ltd.
Wand Manfg. Co.
Wigglesworth & Co.

**TARTARIC ACID**
Boehringer, C. H., Sohn
British Drug Houses, Ltd., The

**TEA**
Christy, Thos., & Co.

**TEATS**
Ingram, J. G., & Son

**TIN BOX MAKERS**
Goodall, Backhouse & Co.
Liverpool Tin Canister Co., Ltd.
Shirley Bros., Ltd.

**TINCTURES IN BOND**
Macfarlan, J. F., & Co.
Ransom, W., & Son, Ltd.

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Singleton & Cole, Ltd.

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Adair, Mrs.
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Armour & Co., Ltd.
Ayrton, Saunders & Co., Ltd.
Beetham, M., & Son
Blackie, Robert
British Drug Houses, Ltd., The
Bronnley, H., & Co., Ltd.
Burroughs Wellcome & Co.
Chesebrough Mnfg. Co.
Christy, T., & Co.
Cook, E., & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Daisy, Ltd.
Edwards' Harlene Co.
Erasmic Co., Ltd.
Euoryl, Ltd.
Fulford, C. E., Ltd.
Gibbs, D. & W., Ltd.
Harker, C. R., Stagg & Morgan, Ltd.
Hovenden, R., & Sons, Ltd.
Kopp & Joseph
Lloyd, Aimée, & Co.
Lloyd, A. S. (Hovenden)
Lorimer-Marshall, Ltd.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Osborne, Garrett & Co.
Papier Poudré, Ltd.
Parke, Davis & Co.
Pazery, Richard
Prichard & Constance, Ltd.
Providol Gesellschaft
Quelch, H. C., & Co.
Roberts & Co.
Sangers
Shirley Bros., Ltd.
Softo Manfg. Co.
Solport Bros.
Southall Bros. & Barclay, Ltd.
Standard Tablet & Pill Co.,Ltd.
Stedman, J. H.
Tokalon, Ltd.
Woolley, J., Sons & Co., Ltd.

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Ayrton, Saunders & Co., Ltd.
Burgoyne, Burbidges & Co.
Ford, Shapland & Co.
Townsend, J., & Sons

**TOOTH PICKS**
Odol Chemical Works

**TRADE-MARKS AGENTS**
Barker, R. W.
Ford Shapland & Co.
Raworth, John E.

**TRUSSES**
Bush, H. W., & Co., Ltd.
Davis, John Morgan, & Sons
Haywood, J. H., Ltd.
Maw, S., Son & Sons
Sangers
Schutze, F., & Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co., Ltd.

**TURNED WOOD BOXES**
Rogers & Co.

**VACUUM FLASKS**
Millard Bros., Ltd.
Thermos, Ltd.
Read & Campbell, Ltd.

**VACUUM PANS**
Bennett, Sons & Shears, Ltd.
Stokes, F. J., Machine Co.

**VALUERS**
Baker, P. C.
Berdoe & Fish
Brett & Co.
Evans, Gadd & Co., Ltd.
Orridge & Co.
Tomlinson, T., & Son

**VASELINE**
Chesebrough Mnfg. Co.

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Danysz Virus, Ltd.
Evans Sons Lescher & Webb, Ltd
Farmer, F., & Co.
Harley, Thomas
Harrison, G. W.
Hawker, Arthur E.
London Hygienic Chemical Co.
Milner's Chemical Co.
Steiner, E., & Co.

**VETERINARY INSTRUMENTS**
Mason Bros. & Chapman
Maw, S., Son & Sons

**VINEGAR**
Grimble & Co.

**VETERINARY REMEDIES**
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Christy, Thos., & Co.
Day & Sons (Crewe), Ltd.
Edwards, W., & Son
Harvey & Co. (Dublin), Ltd.
Senier, Alf., & Co.
Tomlinson & Hayward, Ltd.
Wyleys, Ltd.

**WATER GLASS**
Barclay & Sons, Ltd.
Tomlinson & Hayward, Ltd.

**WATER STILL**
Brown & Sons
Stokes, F. J., Machine Co.

**WATERS, CONCENTRATED**
Robinson, B., & Co., Ltd.

**WAXES**
Price's Pat. Candle Co., Ltd.

**WEED KILLERS**
Harrison, G. W.
Tomlinson & Hayward, Ltd.

**WINDOW FITTINGS**
Ayrton-Graham, Ltd.

**WINDOW TICKETS**
Merten, F., & Co.

**WINES**
Burrough, J., Ltd.

**WINES, MEDICATED**
Burrough, J., Ltd.
Burroughs Wellcome & Co.
Coleman & Co., Ltd.
Fletcher, Fletcher & Co., Ltd.
Idris & Co., Ltd.
Robinson, B., & Co., Ltd.

**WINES (NON-ALCOHOLIC)**
Welch Grape Juice Co., Ltd.

**WRAPPING MACHINERY**
Forgrove Machinery Co., Ltd.

**WRIST STRAPS**
Solport Bros.

**ZINC OXIDE**
Hubbuck, T., & Son, Ltd.
Stevenson, H. E., & Co.

**ZINC SULPHIDE SCREENS**
Buehler & Co.

# The Merits of Biomalz

**(Biomalt)**

that excellent Tonic Food which has already attained a world-wide reputation, is now being brought to the notice of the British Public by a huge advertising campaign in the daily and weekly press.

**Biomalz**

is manufactured from the finest barley-malt and a nutritive salt.

***On the P.A.T.A. List.***

**Obtainable through all Wholesale Houses.**

**Large tin, 2/3 ; small tin, 1/3.**

**Trade Discount 30%.**

**WHOLESALE DEPOT:**

**PATERMANN BROS.,**

**Regent House, Kingsway, London, W.C.**

# "DAMSCHINSKY'S"

# American Liquid Hair Dye

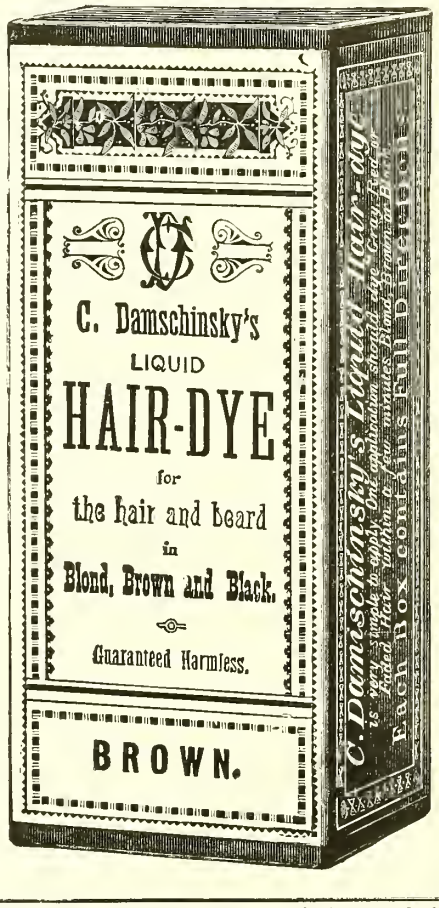
*ONE PREPARATION*

FOR THE HAIR & BEARD (in Three Shades),

BLONDE, BROWN, & BLACK.

It contains no injurious substance. Dyes the Hair, whether grey or red, to any colour—from the finest blonde to the deepest black. It is efficacious and reliable. The oftener the colour is used, the darker becomes the shade of hair—so that the original colour of hair may be retained. It is a Dye, not a bleach. Will not give dark hair a light shade.

**For orders of not less than 6 dozen, we give 1,000 Counter Bills with customer's own name and address as agent.**




**For quantities of not less than 2 gross, we print customer's own name and address on labels as agent.**

**PRICES:**

1/3 Size:

**9/- per Doz.**

2/- Size:

**12/6 per Doz.**

## CERTIFICATE.

*This is to certify that I have examined C. DAMSCHINSKY'S LIQUID HAIR DYE, and find it to be free from all substances which might have an injurious effect, provided that the directions be adhered to. Especially is this preparation free from salts of lead and silver.*

*Dr. M. Hasenclever,*

*Wall Street, New York.* *Analytical Chemist.*

*SOLE AGENTS FOR GREAT BRITAIN;* **OSBORNE, GARRETT & CO., LONDON, W.**

S. MAW, SON & SONS
7 TO 12, ALDERSGATE ST.
LONDON, E.C.

# Maw's Page.

No. 139 JUNE 13, 1914

TELEPHONE (4 LINES)
LONDON WALL 3230
TELEGRAMS & CABLES
'ELEVEN, LONDON'
CODE. ABC (4TH & 5TH EDN)

## NOTES & NEWS

### BATHING CAPS

ONCE again our selection of Bathing Caps ranks foremost as one of the striking features of the holiday season. We have made a selection, and illustrated them in colours in handy leaflet form. Just "Cap, 'C. & D.' List" on a postcard will bring you one by return.

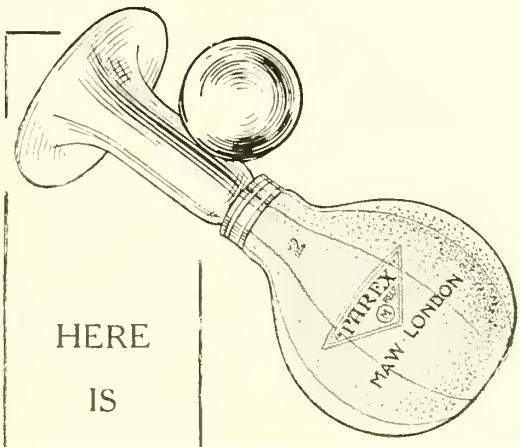
### A NEW DENTIFRICE

DAY by day the merits of our "Parex" Tooth Powder are becoming more widely known. Recognised as the most scientific, efficacious, and pleasant dentifrice on the market, it offers record value for money at the protected price of 1/- per tin. Our price 7/9 per dozen, less 5%. Write for special bonus offer.

### REDUCED PRICES

B1402/B.

THE Enema illustrated above—Maw's Super No. 11 Arabesque—has been reduced in price from 45/6 to 42/- per dozen. The "B" quality (B1417/B) has also been reduced from 36/- to 33/6 per dozen. A good opportunity to stock two of the leading Maw Enemas.




HERE IS "PAREX" VALUE.

Protected retail price, 2/6 each! 11/- clear *PROFIT* on every dozen sold, and the *new* "Parex" Breast Reliever is just the line to sell quickly.

The bulb of the "Parex" is made of red rubber with velvet finish. The receiver is made of stout glass. It has a capacity of two ounces. Each put up in art grey box. British made throughout.

□ □ □ □

MAW'S "PAREX" BREAST RELIEVER.
REGD.

PER 20/- DOZ.
USUAL DISCOUNT
PROTECTED RETAIL PRICE, 2/6 EACH.

# CLINICAL THERMOMETERS.

Best Quality at Lowest Prices

WRITE FOR PRICE LIST.
**40 DIFFERENT KINDS.**
Special Quotations to Wholesale Buyers

THE
## "MATER"
LENS FRONT (Regd.)
**CLINICAL THERMOMETER.**
## P.A.T.A.

MERCURY COLUMN SEEN AT A GLANCE.
Made in Two Rapidities, 1 Minute and ½ Minute.

New Price List of Thermometers for every purpose, post free.

**PERKEN, SON & CO. LTD.**
ESTABLISHED 1852.
*Contractors to H.M. Government,*
99 Hatton Garden, **LONDON.**

For
**FOUNTAIN PENS**
and all Pens
the Best.

# Dichroic Ink

Makes Writing Easy

*Proprietors:*
*Bewley & Draper, Ltd., Dublin.*

# SMART & UP-TO-DATE PRINTING
## *versus* CHEAP & ORDINARY PRINTING.

The chemist or pharmacist is a representative of an ancient and honourable profession, and as such requires its reputation maintaining. A young man who wishes to qualify for the fulfilment of all its intricate degrees will have to spend much time and make many sacrifices to attain its highest positions. When attained he should not lose sight of the fact that the profession he has bound himself to should be kept up-to-date with the best products of the market. The whole countryside is flooded with cheap and ordinary printing which, to inexperienced chemists, is very seductive. The great purchasing public are invariably guided by the quality of goods served to them. They are drawn to notice the business premises of the man who distributes **good-class, up-to-date printing.** It is a striking and almost sure credential of the quality of goods sold. Chemists should at all times shun cheap and unattractive advertising material if they wish to make an impression on the public.

# THOMAS WAIDE & SONS

**KIRKSTALL ROAD**
**∴ LEEDS ∴**

have had 35 years' experience as Medical and Chemists' Printers, and have a reputation for supplying the very best and up-to-date high-class work at such moderate prices that will enable the chemist to advertise his specialities in keeping with the profession. *Cheap and ordinary printing is a profitless investment.*

**Write for Samples and give them a trial.**

**STARTING OR RE-ORGANISING OPTICAL DEPT.**

Qualified Optician with large experience is open for temporary engagement. First-class references and proofs of capabilities in organising and placing optical departments on paying basis.

**Optics, c/o "Chemist & Druggist," 42 Cannon St., E.C.**

**COCKROACHES CLEARED WITH BLATTIS, THE UNION PASTE.**

Guaranteed by E. Howarth, F.Z.S., who destroyed a plague of them at Sheffield Workhouse in 1896.
Supplied by order to the Royal Household at Sandringham.
Recommended by Dr. H. Woodward, F.R.S.; Canon Kinton Jacques, R.D.
Wholesale Agents: F. Newbery & Sons, 27 Charterhouse Square, London, E.C.; Evan Sons Lescher & Webb, Ltd., 56 Hanover St., Liverpool; John Thompson, Ltd., 58 Hanover St., Liverpool; Ayrton, Saunders & Co., Liverpool; Sangers', 42A Hampstead Road, London; May, Roberts & Co., Ltd., 7/11 Clerkenwell Rd., London.
Retail Agents: Butler & Crispe, 82 Clerkenwell Rd., London, E.C.; R. Hovenden & Sons, Ltd., 29, 30, 3 , 32 & 33 Berners St., Oxford St., London, W.; Boots Ltd., London and Manchester.
**HOWARTH & FAIR, 471 Crukesmoor Road, Sheffield**

**SHOP FRONTS**
**and**
**Modern Improvements.**

**H. MILLS,** the Chemists' practical Shop Fitter, Shop Front Builder with the latest designs and largest experience. Plans submitted for structural Alterations. Estimates free.

**Steam Works:**
**163-5 OLD STREET, LONDON, E.C.**

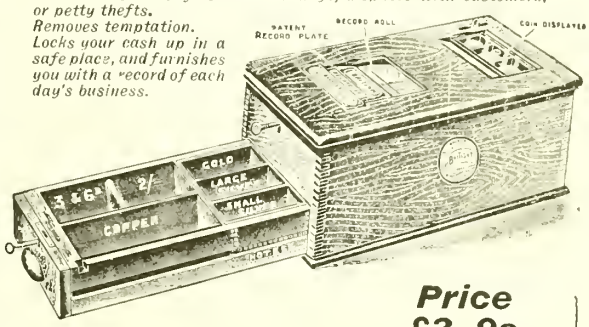
*On hand—a large stock of Drug Fittings, Counters, Dispensing Screens, Wall Cases, etc., equal to new.—Bargains!*

***MONEY WOULDN'T BUY IT FROM ME!***

*This is what a Chemist wrote us the other day.*

***YOU CANNOT AFFORD TO BE WITHOUT THE BRITISH 1914 MODEL TILL.***

*There's no Till built by anybody anywhere to equal it.*
*It enforces the registration before Cash Drawer can be opened.*
*Prevents loss through errors in change, disputes with customers, or petty thefts.*
*Removes temptation.*
*Locks your cash up in a safe place, and furnishes you with a record of each day's business.*



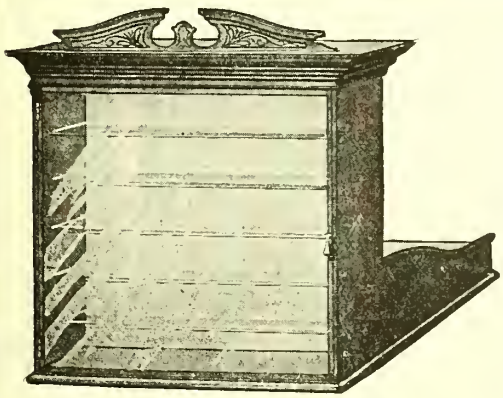

***Price £3 9s.***

*It's easy to give a penny too much in change—isn't it?*
*It's such a small amount, but a penny a day is sixpence per week or 26/- a year. This Till will prevent this loss, and if it saves you only one penny a day will show you a return of 42½% on its cost. How do you know that mistakes and other leakages of much larger amounts are not taking place daily in your Pharmacy?*
*Install* ***The "BRITISH,"*** *and in less than six months you'll be writing us similarly to the Chemist who wrote that "Money wouldn't buy it from him."*

***TEST IT FREE. We'll send it at our risk.***

***BRITISH MACHINE CO. Ltd.,*** *Patent Till Works, HALIFAX.*

**D. GRANT SHOP-FITTER & PATENTEE**



**COMBINATION DESK AND SHOWCASE**

Solid Polished Mahogany, plate glass, mirror back, five adjustable shelves. 24 in. wide to 27 in., £3. 30 in. wide, £3 5s. 0d.

**COUNTER CASES FOR SALE**

Best quality, only 6 months in use at Glasgow Exhibition. Best British Plate Glass. Solid Polished Mahogany, plate mirror folding doors, spring catches. All repolished equal to new, 10s. 6d. per foot run, packed and put on rail.

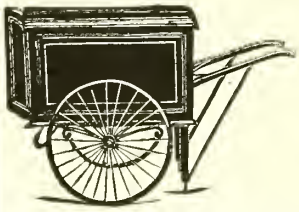
Set of first-class Chemist's drawers with labels and knobs complete. Modern, 2s. 10d. per drawer. Also five cigarette cases, 15s. each.

**ST. JAMES' PLACE, EDINBURGH.**

ZEAL'S PATENT
CLINICAL THERMOMETER
The "REPELLO"
Requires no shaking down. Guaranteed Accurate.
A 30-Second Pushed back in an Instant.
Send for list, post free.

C. H. ZEAL, 82 Turnmill St., LONDON, E.C.
Wholesale Manufacturer of
CLINICAL THERMOMETERS,
A SELECTION OF 50 KINDS.
Established 1888. Telephone No. 12438 Central.

CHEMISTS' HAND-CARTS,



finished in any desired colours are one of our most popular lines of manufacture.

We are also makers of
Trucks and Trollies
of all descriptions for Home and Export, for which we have won a world-wide reputation.

For Illustrations and Prices write
CREWE & CO., 1 Crown Point Rd., & Hunslet Lane, LEEDS,
And 322-4 Gray's Inn Road, London, W.C.

THE SERUM . . . TREATMENT OF HAY FEVER
AUTUMNAL CATARRH, ROSE FEVER, AND SIMILAR COMPLAINTS.
POLLANTIN
(ANTIDOTE FOR POLLEN TOXINE)
FOR EXTERNAL USE.
Prepared under supervision of the discoverer, Professor Dr. DUNBAR, by SCHIMMEL & CO., Miltitz, near Leipzig (Germany).
Sole Agents for U.K. and British Colonies (Canada and Australasia excepted):
WILLOWS, FRANCIS, BUTLER & THOMPSON, LTD.
Wholesale Druggists,
40 Aldersgate St., LONDON, E.C.
LIQUID, POWDER, and also SALVE. (Patented in Germany, England, the United States, &c.)

NO GLOSS
NO POLISH

In bottles, 6d. each, in separate neat cartons, with suitable brush.
These Dyes are a distinct invention, dyeing the straw without an objectionable varnished appearance, and producing the effect of new goods.
On the P.A.T.A.
Write for terms, patterns, also leaflet of testimonials:
WHITAKER & CO. COLOUR WORKS, KENDAL, ENG.
London Depot: 60-62 CLERKENWELL ROAD, E.C.
Special Non-Inflammable Series for Export. EST. 1878.
Telegraphic Address: "Dullette Kendal." Telephone: No. 214

It pays to give good value to your clients.
They come again.

Proprietors of: 'PAPYROLES,' 'JAPYROLES,' and many other well-known Brands of TOILET PAPERS.

Wholesale only from Proprietors:
FRANCIS NEWBERY & SONS, LTD.
27 & 28 CHARTERHOUSE SQ., LONDON, E.C.

'Niagara Mills'
TOILET PAPERS
6d. & 1s. Cartons are the best.
Per doz. ... 4s. and 8s. 6d.
TERMS: 5% MONTHLY ACCOUNT.

# NITSCHE & GUNTHER OPTICAL CO. LTD.

MOST EXPERIENCED OPTICIANS CAN FIT A SPECTACLE FRAME TO A CUSTOMER'S FACE. MUCH OF IT IS A MATTER OF A MILLIMETRE RULE AND A LITTLE ADJUSTMENT.

POSSIBLY ONE OF THE MOST DIFFICULT TASKS OF THE MODERN OPTICIAN IS THE SATISFACTORY FITTING OF RIMLESS EYEGLASSES. IT IS TRUE THAT EVERY OPTICIAN SELLS RIMLESS GLASSES, BUT THEIR SUCCESSFUL ADAPTATION IS JUST ONE OF THE THINGS THAT LIFT THE FIRST-CLASS MAN RIGHT OUT OF MEDIOCRITY. IT DISTINGUISHES THE ARTIST FROM THE BLACKSMITH-OPTICIAN, THE PROFESSIONAL FROM THE AMATEUR. IT IS THE REASON TO YOUR CUSTOMER WHY YOUR WORK SHOULD FETCH DESERVEDLY HIGHER PRICES THAN THOSE OF THE CUT-PRICE OPTICIAN.

ONE CAN SAFELY SAY THAT MANY PEOPLE WEARING RIMLESS EYEGLASSES LOOK AS IF THEY HAD VISITED A GAS-FITTER INSTEAD OF AN OPTICIAN.

OUR NEW METHOD OF FITTING-SETS OBVIATES MUCH OF THIS DIFFICULTY, AND ENABLES THE OPTICIAN WITH LITTLE TROUBLE TO FIT HIS CUSTOMERS WITHOUT GOING THROUGH THE FORMALITY AND TEDIOUSNESS OF AN ELABORATE SERIES OF MEASUREMENTS.

FIRST-CLASS CUSTOMERS REQUIRE FIRST-CLASS WORKMANSHIP AND METHODS. OUR SYSTEM OF FITTING THE "Stae-on" FINGER-PIECE EYEGLASSES WILL COMMEND ITSELF TO YOU AT ONCE.

*Write us— so that we can give you full particulars*

## 66, HATTON GARDEN, LONDON, E.C.

# "One cannot help but marvel at the persistence of the food and drugs inspectors to justify their existence by continually working on the traps set for the unwary . . ."

*The Chemist and Druggist.*

So far as Borax is concerned, all possible trouble may be avoided by selling for medicinal purposes that grade only which is specially prepared to comply with the requirements of the B.P. The Commercial Quality, though 99.50% pure, may possibly fail to meet the tests. It is advisable always to specify

## Extra Refined Guaranteed B.P. Quality

*"Twenty Mule Team" Brand.*

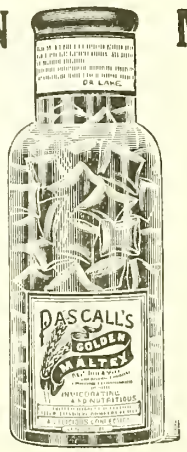
It is sold in the form of stainless crystals and fine white powder, and although the cost of refining is considerably greater, the price is only £1 per ton higher than for Commercial Quality. Order (through your wholesale house) exactly as above.

*Sample is obtainable on request.*

**Borax Consolidated, Limited,** 16 Eastcheap, London, E.C.

# PASCALL'S

## GOLDEN MALTEX




*Contains 25% Pure Malt Extract of especial food value for Children.*

6d. & 1/- Bottles. 4 ozs. 3½d.

¶ Pascall's Golden Maltex is admirably suited for sale by Chemists, owing to its nutritive and restorative qualities.

¶ Order through your Wholesale Druggist, or direct from the manufacturers,

**JAS. PASCALL, Ltd., LONDON, S.E.**

*Build up a Solid Trade on the*

# "ROC"

SUPERTESTED VACUUM FLASK

PRICES TO SUIT ALL REQUIREMENTS

ONE QUALITY ONLY —THE VERY BEST

**READ & CAMPBELL, LTD.,**
Craig's Court, Charing Cross, London, S.W.

# The difference

**2½ grs. Phosphatides**

is that every teacup of "Ovaltine" besides yielding 180 to 220 Calories contains 2 to 3 grains of Lecithin and allied organic phosphorous bodies which are now known to have a special significance in the processes of nutrition and metabolism. This pharmacodynamic value specially distinguishes "Ovaltine" from other invalid foods and beverages.

"Ovaltine" is a beverage which can be taken with meals instead of other beverages and reinforces the diet in a very definite practical way. It possesses marked stimulating tonic qualities, and often remarkable results have followed its use in Convalescence, wasted and ill-nourished subjects, Adynamia, etc.

A. WANDER Ltd.,

Offices: 1 & 3, LEONARD STREET, LONDON, E.C.
Works: KING'S LANGLEY, HERTS;
And at Berne, Osthofen, Budapest, Milan.

TRADE MARK
OVALTINE
TONIC FOOD BEVERAGE

M 56A

# WARNING TO CHEMISTS.

Do not risk your capital by stocking your shop with articles which are not well advertised, and do not risk your reputation by recommending articles of which you have no proof as to their merits.

Dr. Ridge's Patent Cooked Food has a 50 years' record, and is to-day recognised as one of the safest, purest and most reliable foods for Infants, Invalids and Aged Persons.

Chemists may recommend Dr. Ridge's Patent Cooked Food with the utmost confidence, and none should ever be without a supply; thousands of pounds are spent annually on various forms of attractive advertising with the result that the Public are continually asking for Dr. Ridge's Food.

## MAY WE SEND YOU A FREE SUPPLY

of Counter Wrappers and Showcards? Remember, Dr. Ridge's Patent Cooked Food is on the P.A.T.A. List and shows a profit of 20% to all retailers who handle it. All the leading wholesale druggists can supply you with Dr. Ridge's Patent Cooked Food in **2d.** packets and in tins at **6d., 1/-, 2/-, 4/-,** & **8/-.**

Chemists abroad should be careful to order the Dr. Ridge's Patent Cooked Food manufactured in England, and beware of substitutes.

Write to us now for advertising matter, a postcard will do, and let your customers know that you are able to supply their requirements.

*Address:*—**Dr. Ridge's Royal Food Mills, Dept. CD., London, N., Eng.**

# DR. RIDGE'S PATENT COOKED FOOD

# "SOLAZZI" LIQUORICE JUICE

## THE CHEMISTS' BRAND.

## 'The Lancet' says: 'Of Standard Purity'

Recommended also by *The British Medical Journal, Health, The Chemist and Druggist, Food and Sanitation.*

**Ask for SHOWCARDS and HANDBILLS. To be obtained of all Wholesale Houses.**

**PRICES PROTECTED.**

## Dr. Allinson's Food Preparations.

**Food for Babies, Prepared Barley, Brunak, Power, N-F. Cocoa, Biscuits, Soup, Nutbutter (Walnut Brand), Wholemeal, &c.**

***NOTICE TO THE TRADE.***

We issue a list of WHOLESALE HOUSES who keep above in stock; if for *any* reason you have difficulty in obtaining supplies, please send postcard direct to us, and a list will be sent to you by return. See trade mark on all our goods: "T. R. ALLINSON." ***None Genuine Without.***

**NATURAL FOOD COMPANY, LIMITED,**
**305 Cambridge Rd., Bethnal Green, LONDON, E.**

***Handbills, Booklets, Showcards, &c., Free.***

**N.B.**—Our goods are to be sold only at prices stated upon the Price List we issue to the trade.

PURE EGG LECITHIN

**LECITHIN EX OVO**

**LECITHIN-ALBUMEN POWDER**

For the manufacture of Tablets, Chemical Foods, Nerve Tonics, etc.

**LECITHIN FOOD PREPARATIONS**

**Prepared with 2½%, 5%, or 10% of PURE Lecithin in bulk, or in boxes or cartons.**

**LECITHIN TABLETS, DRAGEES, PILLS or CHOCOLATE.**

Prepared by Chemical Works "VICTORIA," Berlin, S.W.

*Sole Agent for U.K.:*

**HUGO LORENZ, 7 & 8 Idol Lane, London, E.C.**

Write for Pamphlets. Tel. Nos.: Avenue 5945; Central 12641.

# HORLICK'S MALTED MILK

## Lunch Tablets

*MALTED BARLEY, WHEAT & MILK in TABLET Form.*

**In Glass Pocket Flasks.**

**Costs the Trade 9/- for Single Dozens.**

ESPECIALLY CONVENIENT FOR TRAVELLERS
:: SPORTSMEN, ATHLETES AND CYCLISTS. ::

***Write for particulars to—***

**HORLICK'S MALTED MILK CO.**
**SLOUGH, BUCKS., England.**

**A NEW SIZE TO SELL FOR ONE SHILLING.**

**One Dozen Flasks for Counter Display.**

# Lofthouse & Saltmer, Ltd.

**Wholesale and Export Drug Merchants,**
**Manufacturing Chemists**

## HULL

Invite the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

| | Protected Retail Price. | Dozen Net. |
|---|---|---|
| *LOSALL'S SALT (well advertised), tins | 6d. | 3 6 |
| * " " " " " | 1/- | 7/- |
| * " " " " bottles in cartons | 1/6 | 10/6 |

** Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.*

**LOSALL'S COMPOUND SULPHUR SOAP.**

| | | |
|---|---|---|
| A valuable emollient medicated skin soap, especially suitable for use in Eczema | 1/- | 8/- |

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

**SPECIAL TERMS ARE OFFERED FOR WHOLE OR PART WINDOW DISPLAYS.**

# VEROX

**ALL BEEF. ALL BRITISH**

Fluid Beef is the line that sells. More cups to the bottle, better quality and low minimum selling prices are a few points that, backed by good advertising, create the demand.

## 25% Profit

One quarter of the selling price is yours. Send to-day for free sample, price list, and special advertising terms to—

TOOTH'S Liebig (Est. 1865),
23 LEMAN STREET, LONDON, E.

# SAL HEPATICA

**PUT UP FOR EXPORT.**

| | | | | |
|---|---|---|---|---|
| Small | Size, | 3 oz. | bottle, | in case. |
| Medium | ,, | 7 ,, | ,, | ,, |
| Large | ,, | 16 ,, | ,, | ,, |

**OBTAINABLE IN LONDON FROM**

Thos. Christy & Co., 4-12 Old Swan Lane, Upper Thames Street, E.C.

The American Drug Stores, Trafalgar Bldgs., 6 Northumberland Avenue, London, W.C.

Burgoyne, Burbidges & Co., 16 Coleman St., E.C.

F. Newbery & Sons, Ltd., 27 Charterhouse Square, E.C.

Roberts & Co., 76 New Bond Street, W.

## THE NATURAL MINERAL WATER

# VICHY-CÉLESTINS

STATE SPRING.

## DISORDERS OF THE LIVER; GOUT;

**DIABETES; RHEUMATISM; GRAVEL, &c.**

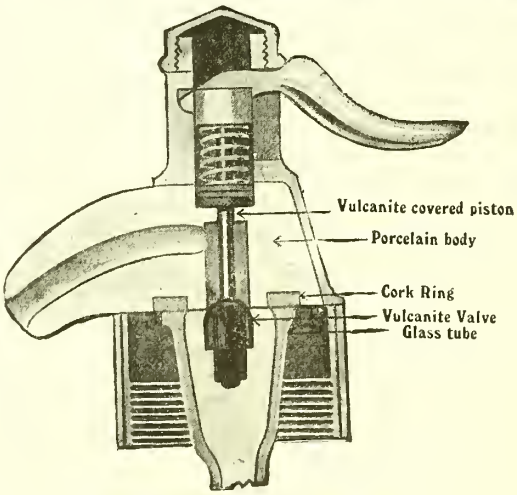
## VICHY-ÉTAT PASTILLES.

Two or three Pastilles after each meal facilitates digestion.

CAUTION: Each bottle from the STATE SPRINGS bears a neck label with the words "VICHY-ETAT" and the name of the SOLE AGENTS:

## INGRAM & ROYLE, Limited,

**Bangor Wharf, 45 Belvedere Road, London, S.E.**
**And at LIVERPOOL and BRISTOL.**




**TESTIMONY OF USERS:**

*"The most Perfect Hygienic Syphon on the Market."*

It you contemplate filling your own Syphons apply here for up-to-date Electrical Plant.

**SHARMAN'S PATENT SYPHON CO. LTD.**
**171 LOWER CLAPTON ROAD, N.E.**

**Gold Medal awarded, Odessa Exhibition, 1910**

# SYPHON SATISFACTION

secured by using Sharman's (patent) Hygienic Syphon.

Chemists are now becoming alert to the disadvantages of the ordinary Syphon. The usual heads are made of Tin, Lead, Antimony or Aluminium Alloys which dissolve in $CO_2$; therefore the water cannot be pure and its use may be attended with most serious results.

The head of Sharman's Hygienic Syphon is of solid porcelain and the valve and piston are covered with vulcanite.

*BEWARE of infringement of Sharman's Patent Syphons. Makers and users are equally liable and will be promptly proceeded against.*

# A SODA-WATER MACHINE

FOR **31/6** ONLY

with which any Chemist's boy can fill any number of 40-oz. syphons at the cost of

ONE PENNY PER SYPHON.

Lithia, Potass, Seltzer, Carlsbad, also Lemonade, Ginger Ale, etc., just as quickly and easily prepared as Soda.

NOTHING TO GET OUT OF ORDER.

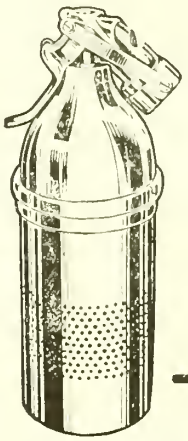
DROP A CARD NOW TO

## PURE AERATION SUPPLY, Ltd.

1 CRAIG'S COURT, CHARING CROSS, LONDON, S.W.

FOR FULL DETAILS.

*Sole Concessionaires for Scotland*—
PURE AERATION SUPPLY (SCOTLAND), LTD.,
98 West Regent Street, Glasgow.



# A. MILLAR & CO., LTD., DUBLIN

# PURE ORANGE WINE

VINUM AURANTII, B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.

**London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C.**

# SODA-WATER MACHINERY.

***By the use of our latest Back Pressure Filling Machines only half the usual quantity of Gas is used for the manufacture of the Highest quality Soda-water, either in Syphons or Bottles.***

THE "COMPACT" MACHINES

are specially designed for

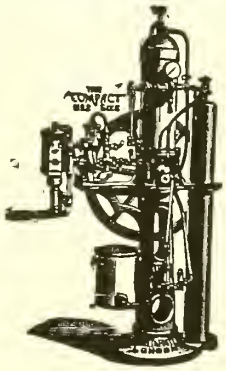
CHEMISTS, GROCERS, RESTAURATEURS,

and everyone to whom space is an object, and can be used for filling Syphons, Codd's Bottles, or Cork Bottles.

**OCCUPY LITTLE SPACE!**
**ARE READY FOR USE IMMEDIATELY!**
**REQUIRE NO FIXING!**

Produce Soda Water, Lemonade, &c., of the highest class and greatest purity.

***Write for Catalogue.***



**A COMPLETE APPARATUS—CAPABLE OF PRODUCING OVER 300 DOZEN LARGE BOTTLES OF AERATED WATER PER DAY—FROM £20.**

Bottles, Boxes, Essences, and all Requisites for the Trade at Lowest Prices.

## BARNETT & FOSTER, Niagara Works, 26T Eagle Wharf Road, N.

***Proprietors of Galloway Bros., Bolton.***

THE "D & O" BRAND MEANS "STANDARD OF QUALITY"

ESSENTIAL OILS, SOUTH AMERICAN BALSAMS & DRUGS.

*Write for Samples and Prices of our* PEPPERMINT OILS.

DODGE & OLCOTT CO., 20 MARK LANE, LONDON, E.C.

OKELL'S ORIGINAL MONA BOUQUET.

(First introduced by the late JOSEPH O'KELL).

Registered Trade Mark, "DOUGLAS PIER."

The most popular and best-selling perfume in the market.

Retail Prices ... 1/-, 1/9, 3/6, 6/-, 7/6, 10/6, per Bottle.

ALSO 3d. SAMPLE BOTTLES.

Shippers and Wholesale Buyers supplied on the best terms by THOMAS WEST & SON, 1187 Chester Road, Stretford, MANCHESTER.

*A New and Profitable Line.*

CALVERT'S CARBOLISED Shaving Soap

Gives a lather most effective for its purpose—to secure a comfortable and hygienic shave. Readily rinsed from a safety razor.

Retail at face value 10d. a stick.

F. C. CALVERT & CO., Manchester, Eng.

Manufacturers of Calvert's Carbolic Tooth Powder, Soaps, Disinfectants, etc.

THE LESCOL PERFUMERY CO.

beg to announce that in addition to their well-known popular lines they now have an extensive range of

NEW LINES.

Before placing orders, BUYERS will be well advised to send a card stating requirements, when a price list with coloured illustrations of those suitable to their market will be sent immediately.

Orders dispatched in rotation; to ensure early delivery write at earliest opportunity to:—

THE LESCOL PERFUMERY CO.,
LOMOND GROVE,
CAMBERWELL GREEN,
LONDON, S.E.

Telephone: 810 Hop.

Telegrams: "VANILLIN-CAMBER, LONDON."

# 10/6 Profit
## — Sale Guaranteed
## — and it does give satisfaction.

As a rule you feel doubtful about selling a new line—you wonder if it will please your customers. You can be sure of satisfied customers if you sell them a

## TOKALON ELECTRIC HAIR BRUSH

Our price list proves that this wonderful new invention shows you 10/6 clear Profit. Our guarantee to sell, or take back at any time, your stock of all Advertised Tokalon Lines protects you absolutely in ordering one or two of these brushes, because the Tokalon Electric Hair Brush is being widely advertised. Lastly, you could have no more convincing proof that this new line will satisfy your customers than the following few words quoted from a well-known chemist's letter recently received:

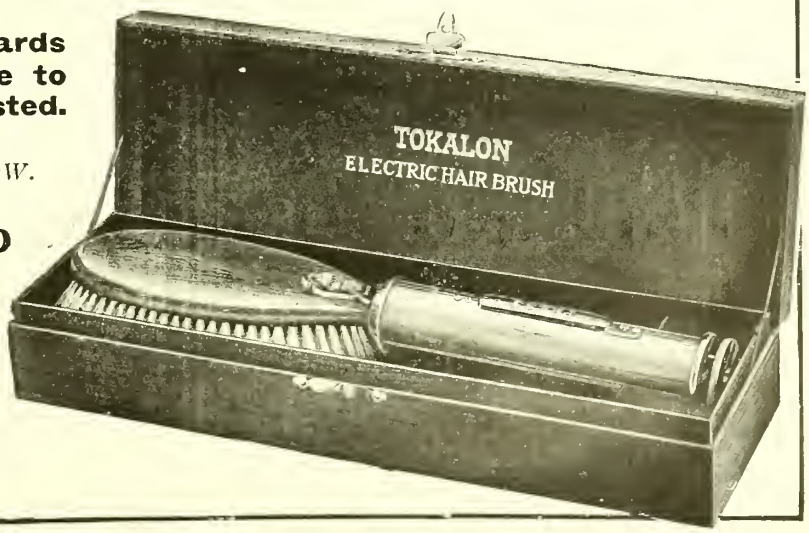
> **"I am pleased to tell you that the brush has given great satisfaction to this customer. A complete new healthy growth of hair has sprung up."**

That's the kind of evidence which makes you feel the Tokalon Electric Hair Brush is worth selling and similar letters are frequently received from chemists reaping the benefit of the excellent profit on this new line.

**Booklets and Showcards sent Free of Charge to all chemists interested.**

*Send for particulars NOW.*

**TOKALON LIMITED**
**TOKALON HOUSE**
**212/214 Great Portland Street,**
**LONDON, W.**



The number of dentifrices is myriad, their names are legion.

*But*—

in principle and in efficiency there is but one,

# CALOX

## THE OXYGEN TOOTH POWDER.

**Its principle is the evolution of oxygen.**

**Its efficiency as a cleanser of the teeth is due to the oxygen which it generates when used.**

*Not only antiseptic, but deodorant, two desirable properties of a tooth powder. Its oxidizing and deodorizing power was obvious in our experiments.*—THE LANCET, *London, Eng.*

*Possesses not only strong antiseptic, but deodorizing and oxidizing properties, as the result of which the teeth, after a few days' use of CALOX acquire a pearly whiteness.*—THE CHEMIST AND DRUGGIST, *London.*

CALOX is entirely different from other dentifrices. Its introduction marks a decided advance in the scientific development of a dentifrice, a fact which the dental profession the world over has been quick to recognise. Chemists should interest themselves in Calox because only a chemist can explain the peculiar virtues and value of an oxygen-producing dentifrice.

***Price to the trade, 9/6 per dozen on the P.A.T.A plan.***

**McKESSON & ROBBINS, New York, U.S.A. *Manufacturers.***

**BRITISH DEPOT— G. B. KENT & SONS, Ltd., 75 Farringdon Road, London, E.C.**

**LATEST FINE SELLING NOVELTY**

# HAYDEN COFFIN

**TOOTH POWDER**

**COMPRESSED, PTD.**

(From a Prescription of his father, Dr. C. R. COFFIN).

NOT A SOAP. NOT A PASTE. UNIQUE ARTISTIC PUT-UP.

***Now on Sale at***

BARKER'S, HARRODS', SELFRIDGE'S, WHITELEY'S, ARMY & NAVY STORES, and leading WEST-END CHEMISTS'.

***ALSO THE***

# HAYDEN COFFIN

## HYGIENIC TOOTH BRUSH (Rgd.)

***Retail Prices:***

**POWDER, 2s. 6d. BRUSH, 1s. 1d.**

***Trade Supplied by***

**HAYDEN COFFIN T. P.**

**39 VICTORIA STREET, LONDON, S.W.**

# PAROUBEK'S

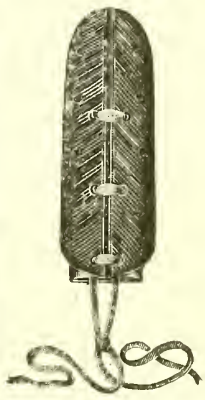
## "FOLDO"

LACING

## FINGER STALLS

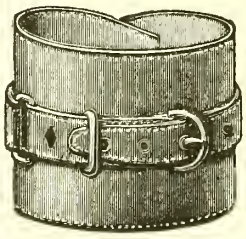
(BLACK OR TAN)

3/9 PER DOZEN.



**PAROUBEK'S "TRIUMPH" WRIST STRAPS**

(Felt lined). 3/9 per doz.



***BOTH THE BEST.***

Of all Wholesale Houses.

*Sole Consignees for Great Britain and Colonies:*

**SOLPORT BROS.**

**184-190 GOSWELL RD., LONDON, E.C.**

VINOLIA
ALL ALIKE PERFECT

# ROYAL VINOLIA TOILET LUXURIES.

THAT the public recognize the unfailing high quality of the Royal Vinolia Toilet preparations is evidenced by the steadily increasing sales of these articles.

This assures us that our Royal Vinolia Depot Holders have heartily co-operated with us by displaying and recommending our productions.

VINOLIA CO LTD
LONDON — PARIS.

RV 173—29

# There are Perfumes and Perfumes

*but nothing to surpass the famous*

# Eau de Lubin

(THE QUEEN OF TOILET WATERS).

No. 500. ... 2/9 size.
EAU de LUBIN.

We also stock in London:

**MYRTIDA, MUGUALBA, GERAROSE, VIOLALBA, OEILLET-SOLEIL, KIGRIZ, SOLA-MIA, ENIGMA.**

All the above are on the P.A.T.A. Show Good Profits.
Elegantly put up. Sell themselves if displayed.

**PARFUMERIE LUBIN of PARIS.** WE INVITE YOU TO WRITE TO OUR REPRESENTATIVE IN LONDON—

Tel. No. 2672 Cen. *Richard Pazery, Camomile St. Chambers, London, E.C.*

# Johann Maria Farina's Julichs Platz No. 4

**GENUINE**

## EAU DE COLOGNE

is known throughout the world by the label on the bottle as shown herewith. Attention is drawn to the No. 4, which is the number of Johann Maria Farina's Factory Place, viz. Jülichs Platz No. 4, in the city of Cologne on the Rhine.

**By Appointment to H.M. King George V.**

**Buenos Aires, 1911, GRAND PRIX.**

**Turin, 1911, GRAND PRIX.**

HIGHEST AWARDS.

Wholesale Agents:
**FICKUS, COURTENAY & CO. Ltd.**
36 Sackville St., Piccadilly
LONDON, W.

# An Opportunity

now presents itself for Chemists to sell the popular

# GANESH PREPARATIONS

OF

## *Mrs. E. ADAIR,*

the well-known Specialist in Beauty Culture, of **92 NEW BOND STREET, LONDON, W.,** Paris and New York.

¶ **These preparations are patronised by Royalty and the leading society ladies of England and abroad and have the recommendation of the Medical Faculty.**

¶ **The Canesh Preparations should prove a remunerative line to Chemists and Drug Stores, as many ladies will avail themselves of the opportunity of purchasing locally.**

*Extensive publicity is given each week in the leading ladies' journals.*

**CANESH EASTERN OIL**

is a wonderful success for removing lines, hollows, &c., making the skin firm, fresh, and healthy. Restores the youthful complexion. Sizes, 5/6 to 30/6.

**CANESH LILY LOTION**

is a leading skin doctor's prescription, made in different shades to suit all skins; is most refreshing and beautifying. Preventative against Mosquito and Midge bites. Invaluable for motoring and driving. 5/5 to 10/6.

**CANESH DIABLE SKIN TONIC.**

An infallible remedy for toning, strengthening, and whitening the skin. Prevents cold winds or sunburn from harming the complexion Sizes, 5/6 to 21/6.

**CANESH PATENT CHIN STRAPS**

to be worn during sleep. Restores youthful contours, removes double chins. Made in specially prepared and ventilated elastic, and are soft, light, and comfortable. 21/6; 25/6.

***For Catalogue of other Preparations, together with advantageous trade terms, apply Mrs. Adair, 92 New Bond Street, London, W. 'Phone—Ger. 3782.***

**WILLIAM LASSON'S**

# Hair Elixir

**has a 30 years' reputation as an**

**Unique Hair Producer.**

All wholesale houses supply it.

**Chemists & Druggists**

should apply for

**COLOURED ART PRINT,**

a great help in pushing its sale.

Post free. Write to-day to

*Sole Consignee:*

**M. LINDNER,**

**FARRINGDON AVENUE, LONDON, E.C.**



# ASPAD

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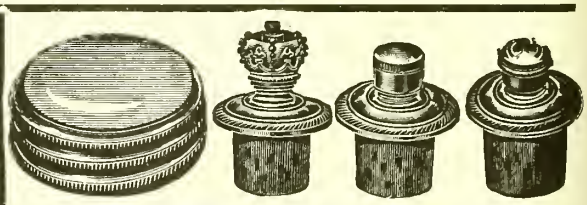

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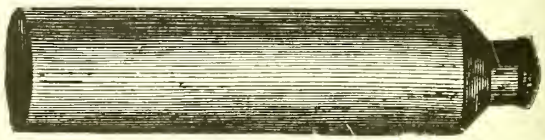

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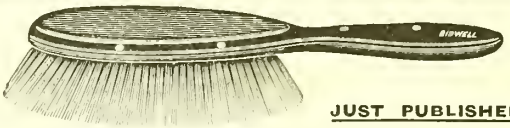


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# SUMMARY.

Subscribers are advised to read this column first.

### Articles and Communications.

Hints to those who want to become nurses are given on p. 65.

The dog-rose is the plant described under Minor Botany on p. 34.

A correspondent makes a suggestion regarding Drug-tariff reform (p. 64).

Sir Joseph J. Thomson, F.R.S., says that atoms of elements differ from each other by two electrons or multiples of two (p. 35).

For the first time the exportation of British medicinal products has reached the value of a million pounds in five months. We comment upon this in an article on p. 49.

A contributor of exceptional experience in Insurance prescription-checking communicates a note proving the value of a thorough examination as a check upon extravagance (p. 55).

A significant extract from the *C. & D.* of fifty years ago is given on p. 66, showing how the Pharmaceutical Society's first attempt at legislation was opposed by the trade before the United Society's Bill was drafted.

The difficulties of dental legislation have been discussed by a medical contemporary. We point out that such authorities do not recognise the cause of the failure of the Dentists Act to provide a sufficient supply of registered dentists. This we deal with on p. 49.

### News of the Week.

The Select Committee on Patent Medicines has been re-appointed, so that the report may be expected soon (p. 51).

Professor Bragg explained at the Royal Institution his method of taking the wave-length of $x$ rays, and the new view it has given of the constitution of crystals (p. 54).

Mr. Locker-Lampson has returned to questioning the Government regarding insufficient payment of panel chemists' accounts, and the replies are reported on p. 51.

We report on p. 50 the first part of the hearing of an action in the English High Court by Dr. Salter, a London panel doctor, who refused to write his prescriptions with a carbon copy, and had his name struck off the panel in consequence.

The Scottish crisis in regard to Insurance dispensing appears to be over. In Aberdeen only is discounting of the 1913 accounts certain. Standing Committee's representatives have interviewed the Commissioners, and we report the results as submitted to the General Council of Panel Chemists (p. 55).

Mr. Bean gave his usual reply in the House of Commons on Thursday to a question by Mr. Cowan regarding the shortage in payment of Aberdeenshire panel chemists' accounts, adding that the Scottish Insurance Commissioners are in communication with the Pharmaceutical Standing Committee, as reported on p. 55.

Further contributions to the subject of colour standards of paper-pulp were made at the meeting of the London Section of the Society of Chemical Industry. Dickson's method of sewage treatment was explained; while Dr. Eric Rideal gave particulars of a research he has been conducting into methods of reducing uranium oxide (p. 53).

Legal cases are exceptionally numerous this week. They include a successful action under the Pharmacy Acts (Ireland) against an unqualified person who traded under cover of a registered person's name (p. 39), and decisions under the Sale of Food and Drugs Acts regarding Easton's syrup (p. 40), a glycerin-of-borax case in Birmingham, convictions in Liverpool for the sale of white pepper containing excessive husk (p. 41), and dismissal of the Peterborough carbolic-oil and olive-oil cases (p. 42).

### Trade and Market Matters.

The markets are better this week. Strychnine is dearer consequent on the scarcity of nux vomica. There has been more business in quinine, and a hardening in second-hand prices. Thursday's market closed with every expectation of a rise in the makers' price. Lemon oil is also dearer, but no business done at the advanced prices. On Thursday there was a sale of newly imported drugs, which is reported on p. 61.

## Minor Botany.

*Being the twentieth of a series of articles for pharmacy students which commenced on January 3, 1914.*

THE rose order, or *Rosaceæ*, is a stumbling-block to students who seek cut-and-dried characteristics for each Natural Order, instead of realising that Natural Orders contain plants more or less closely allied with certain features in common, more especially among the less adaptable floral organs. In the rose group "perigyny" is the chief feature. A typical flower represents a condensed shoot with the floral axis (or thalamus) enlarged to accommodate the floral organs. In the *Rosaceæ* the thalamus by abnormal growth becomes disc or

Rosa canina.

saucer shaped (blackberry), or cup-shaped (rose), and as the calyx, corolla, and stamens are carried up on the edge of the disc these surround the carpels or gynæcium. Perigyny (*peri*=around, *gyn*=of woman or female) in its extreme form leads to epigyny (*epi*=upon) or complete arching over of the carpels, as in the apple, and illustrates the transition from a superior to an inferior form of ovary.

The bounds of several closely allied orders, including the *Rosaceæ*, are not capable of clear demarcation, the rose order itself containing herbs, shrubs, or trees, usually perennial, and possessing alternate stipulate leaves, with a floral receptacle, or thalamus, showing various degrees of perigyny, union of parts being evident usually only in the calyx.

The dog-rose, hip-tree, or wild briar (*Rosa canina*, L.) of our hedgerows is typical of the order. The prickly stems, which may be six feet or more in height, bear smooth leaves that are compound (*i.e.*, broken up into leaflets owing to the blade not being developed between the branches of the main veins). Each leaf consists of two to four pairs of leaflets with a terminal leaflet, all having saw-tooth-like (serrate) margins. At the base are two pointed outgrowths (stipules) which adhere (or are adnate) to the leafstalk for about half an inch. In the flowers, which are borne on smooth stalks (or peduncles), the calyx-tube and cup-shaped thalamus merge imperceptibly into one another. The free limbs of the calyx are five in number. The sweet-scented corolla consists of five pink or white spreading, slightly incurved petals arranged in a rotate manner (so-called rosaceous). These, and the numerous stamens which are incurved in bud, are perigynous. The interior of the cup-like receptacle is lined with numerous carpels, with long styles projecting to the mouth of the tube, which is thus filled completely. On ripening the green calyx-tube is cast off, the walls of the cup-shaped thalamus become smooth, red in colour, and succulent, forming the spurious fruits known botanically as cynarrhodia, and commonly called "hips." The pounded hips, freed from the small, hard, hairy "seeds" (which are the true fruits, being achenes), are still used occasionally in pharmacy as a pill-excipient. There are many varieties of dog-rose, but the other common British wild rose, the field rose (*R. arvensis*) is readily distinguished by its trailing habit and its white scentless flower with protruding styles.

## Essential Oils.

A special number of the "Perfumery and Essential-oil Record" was published on June 9. It contains seventy-six pages, and the nature of the articles is well expressed in the following extract:

> "The matter, substantially, is a review of the raw and wholly or partially manufactured perfumery and aromatic material contributed by each country. To assist in the understanding of the underlying conditions of climate, soil, and labour affecting production, each area is prefaced by a geographic, climatologic, and ethnographic description; while, where valuable statistics are available, particulars are given of the scope of production and the import and export trade. Not the least important features are the indications of cultivation potentialities by which is sought to point the way and encourage experimental growing of essential-oil bearing plants in parts of the world where it seems practicable. Demand for finished perfumery is constantly expanding. One of the most pressing needs at the present time is increased sources of supply of natural basic material, and it should be the constant endeavour of those having our industry's best interests at heart to seek and develop those members of the vegetable kingdom which Nature has endowed with the benign grace of a sweet and subtle odour for the use and gratification of mankind."

"The World's Work in Perfumery" is the title given to the whole thing, the information being arranged on a geographical basis. The "Record" is edited by Mr. John C. Umney, F.C.S., and published at 8 Serle Street, London, the special number being 1*s.* 6*d.*

Messrs. Heine & Co. (Leipzig) have issued a beautiful illustrated volume, reviewing the development of the firm since its inception by Dr. Karl Erdmann Heine in 1853 to the present huge undertakings at Leipzig and Gröba, with branches at Berlin, New York, Paris, and in India. Full-page portraits are given of the founder and past and present directors, and the abundant illustrations show the various departments of the Leipzig factory and the more recent and very extensive works at Gröba-on-Elbe. Attention is drawn to the firm's connection with Schmoller and Bompard, and many illustrations are given of the essential-oil industries with which the firm are connected in Southern France. Considerable space is devoted to the Indian sandalwood trade and the manufacture of synthetic flower oils, a branch of the industry which has grown tremendously within the last ten years and must be regarded as one of the most important factors in the development of the perfumery trade. The book closes with a full description of the new factories and works at Gröba-on-Elbe.

The April issue of Messrs. Roure-Bertrand Fils' "Scientific and Industrial Bulletin" contains much information with respect to the commerce and constituents of essential oils in its 155 pages. Part 1 contains a "Note on Certain Essential Oils from Annam," in which reference is made to a sample of oil of cajuput; physical constants are given showing that this oil of cajuput differs very slightly from those obtained from other districts. A summarised study of essential oils is also given in Part 1, and here an interesting analysis is given of an otto of rose from the Caucasus. Part 2 contains an "Industrial Review" and other articles of interest to those handling essential oils; while Part 3 is devoted to a review of recent publications on the perfumes and essential oils.

"The cutting down of prescriptions is sheer robbery of the general public," wrote a Birmingham chemist to a local newspaper.

## Atoms.

SIR J. J. THOMSON, Cavendish Professor of Experimental Physics at Cambridge, delivered on June 10 the Romanes Lecture in the Sheldonian Theatre, Oxford. The subject was the "Atomic Theory," and the lecture began with a *résumé* of the slight progress in the theory that has been made up till recent times. In giving an account of the present state of the atomic theory, the lecturer pointed out that we now know that such things as atoms exist, and that the atoms of an element are all of one kind. We know that all atoms contain electrons—minute particles charged with negative electricity—and that there is only one kind of electron; and this knowledge constitutes the first step towards a knowledge of the structure of the atom and towards the goal towards which since the time of Prout many chemists have been striving—the proof that the atoms of the chemical elements are all built up of simpler or "primordial atoms." The number of electrons in an atom is also known. From measurements of the scattering of Röntgen rays it follows that the number is not very far from half the atomic weight, so that in the carbon atom there would be six electrons, in the oxygen eight, and so on, while in the lightest atom—hydrogen—there is probably only one. The constant difference between the number of electrons in the atom of one element and that in the atom of the element next in the series is strong evidence in favour of the view that the atoms of the consecutive elements differ from each other by the addition of a primordial atom, which is apparently the atom of helium. The atomic weights of the elements show that in their formation a measurable change of mass has taken place, and the changes of energy involved must be enormous compared with those liberated in any chemical changes with which we are acquainted. For instance, the atomic weight of chlorine being 35.5, which is not a whole number, it follows that in the formation of 35.5 grams of chlorine there must have been a change of mass of at least half a gram, and this involves the absorption or liberation of an amount of energy about equal to that required to keep the *Mauretania* going at full speed for a week. The amount of energy required to break up an atom has a very important bearing on the problem of transmuting the elements by physical means, but the lecturer said that his efforts to split up atoms, though he had succeeded in detaching electrons, had not yielded any evidence he could regard as conclusive that by such means the atom of one element could be changed into an atom of a different kind. There is still work on this subject, he said, for many generations of physicists.

## POISONING FATALITIES.

SEVENTEEN deaths due to poisons have been reported during the week, fourteen being suicides, two were due to misadventure, and one is ranked doubtful.

*Ammonia.*—John Williams, Carbrook, committed suicide while insane by taking liquid ammonia.

*Carbolic Acid.*—Edward Thompson, Knotty Ash, poisoned himself with carbolic acid.—John D. Smith died in Wolverhampton General Hospital apparently from carbolic-acid poisoning, and the same poison caused the death of Margaret A. Peplow, Portsea.

*Cyanide of Potassium.*—Harold G. Fox, a London silversmith, committed suicide with this chemical while temporarily insane.—Celia J. Hammet and a man named Blumberg, both of London, also used cyanide of potassium for suicidal purposes.

*Insect-killing Fluid.*—Florence E. M. Funnell, Lewes, swallowed an insect-killing fluid in the dark in mistake for a tonic.

*Morphia.*—"Exhaustion following delusions due to morphia-poisoning and accelerated by the effects of a fall from a window," was the finding of a Coroner's jury which investigated the tragic death of a well-known Worthing doctor, Mr. John Siddon Crook.

*Oxalic Acid* was taken with suicidal intent by Roger Parker, London, and by Mrs. E. Jordan.

*Phosphorus Paste.*—Annie Burns, Redcar, poisoned herself by taking phosphorus paste.

*Prussic Acid*, self-administered, caused the death of Arnold R. A. Breckwoldt, Soho, London.

*Salt of Lemon.*—Laura Hook, Beverley, poisoned herself with this chemical while of unsound mind.

*Spirit of Salt.*—Bernard Lapé, Houndsditch, London, took his life with this poison.—Francis A. Heinz, New Kent Road, London, died through taking the same liquid by misadventure.

*Veronal.*—Lavender Guthrie died in her flat in Jermyn Street, London, the symptoms being those of veronal-poisoning. Half a dozen empty bottles which had contained veronal tablets were found in the room.

## ENGLISH AND WELSH NEWS.

**Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.**

### Brevities.

At St. Helens, on June 8, the off licence attached to the business of Mr. R. Smith, chemist and druggist, Market Street, St. Helens, was transferred to Mr. J. R. Challener.

Faversham Town Council have granted an agri-horticultural poison licence to Mr. Walter Paice, of H. S. Tett & Co., Ltd., ironmongers, Market Street, Faversham.

The College Sub-Committee of the Bradford Educational Committee have appointed Mr. J. W. Tindle as temporary lecturer in biology and botany as from May 4, in succession to the late Mr. William West.

The Council of the Royal Society of Arts, with the approval of the President, the Duke of Connaught, have awarded the Albert Medal for the current year to Mr. Marconi "for his services in the development and practical application of wireless telegraphy."

The British Optical Association, 199 Piccadilly, London, W., have issued a list of alterations in the regulations of the examinations for membership and fellowship. The revision of the old syllabus is not yet completed. We have also received copies of the examination questions which were set at the May examination in London.

The sixteenth annual report of the National Chamber of Trade, which was adopted at the annual meeting at Blackpool at Easter, has been printed in pamphlet form. It contains also extracts from circulars issued by the Chamber during the past year and a list of affiliated societies and subscribers. The President is Mr. R. C. Walshaw, chemist and druggist, Huddersfield.

The report and balance-sheet of the Wallsend Co-operative Society for the half-year (twenty-four weeks) which ended on May 16 shows the following figures for the drug-department Sales: March quarter, 911*l.* 4*s.* 9½*d.*; May quarter, 667*l.* 3*s.* 1½*d.*; total, 1,578*l.* 7*s.* 11*d.* The trade account shows that the expenses were 191*l.* 8*s.*, equal to 2*s.* 5*d.* in the pound on sales, and the net profit 277*l.* 6*s.* 10*d.*, equal to 3*s.* 6*d.* in the pound on sales.

The funeral of Mr. A. P. Balkwill, of Plymouth, whose death was reported last week, took place at Plymouth Corporation Cemetery on June 4. Mr. Balkwill was a member of the Society of Friends, and before the funeral a Communion was held at the Friends' Meeting-house. The mourners present included Messrs. C. J. Park, R. F. Roper, C. T. Weary, J. D. Turney, W. H. Woods, and H. P. Hearder, representing Three Towns chemists.

Many interesting facts and practical hints upon the subject of lead poisoning were contained in a paper by Sir Thos. Oliver, M.D., Newcastle-on-Tyne, read at the University of Leeds on June 3. Upon the advice of a throat specialist, Sir Thomas did not attend in person, and his paper was read by Dr. J. Kay Jamieson. The lantern-slides used in illustration were explained by Mr. T. M. Clague, Ph.C., A.M.I.E.E., Newcastle, who also demonstrated the use of his electrolytic method of treatment.

### Drug-trade Appeal Fund.

The annual meeting of subscribers was held at St. Bride Institute, Ludgate Circus, London, E.C., on June 5. Mr. Charles Umney, the Chairman of the Trustees, presided, and among those present were Messrs. C. B. Allen, J. G. Atkinson, C. J. G. Bunker, G. F. Knight, Thomas Tyrer, and W. P. Want. The report and accounts, as epitomised last week (*C. & D.*, June 6, p. 35), were adopted. The following were reappointed Trustees for the ensuing twelve months: Messrs. C. B. Allen, C. J. G. Bunker, Walter Hills, L. O. Johnson, G. T. W. Newsholme, Thos. Tyrer, and Charles Umney. Arising out of a statement in THE CHEMIST AND DRUGGIST, some conversation took place on the Bradford Wincarnis-with-quinine prosecution, and it was explained that this may come before the Trustees later. A vote of thanks, moved by Mr. Atkinson and seconded by Mr. Knight, to the

Trustees for their services during the past year, was passed unanimously.—At a meeting of the Trustees, held subsequently, the case referred to was discussed at considerable length, and it was ultimately decided to postpone a final decision on the subject pending the result of a possible appeal to Quarter Sessions. The Trustees undertake only High Court cases.

### Contracts.

Settlement of the following contracts has been notified :

St. Faith's Guardians (Norwich).—Mr. Cossey, chemist and druggist, for trusses.

Burslem Guardians.—Mr. L. W. Piggin, chemist and druggist, Tunstall, for drugs.

Salford Town Council.—Higginbottom & Co., for 750 tons of green copperas at 18*s.* 6*d.* per ton.

Canterbury City Council.—Mr. A. Lander, Ph.C., for a year's supply of drugs for the Sanatorium.

Workington Town Council.—Mr. C. E. Holmes, chemist and druggist, for medicines, etc., for a year, to the borough hospital.

Walsall Town Council.—Dunn Bros. & Co., for annual supply of benzol. The contract with Messrs. Lakin & Co. for supply of carbolic-powder has been renewed for a year.

Hitchin Guardians.—At a meeting on June 2, Mr. A. E. Barham wrote asking if he might be allowed to tender for the supply of drugs. Hitherto only Perks & Llewellyn and Mr. Webb had been asked to tender, and, as the matter had been dealt with for the present year, it was decided that any action must be deferred until the end of that period.

Amersham.—At a meeting of the Guardians on June 2, reference was again made to the complaint of Mr. Ivor R. Phillips, chemist and druggist, regarding his contract for cod-liver oil and crushed linseed (*C. & D.*, May 16, p. 34). The Board recently decided that if Mr. Phillips could show that he had suffered any pecuniary loss they would consider the matter. Mr. Phillips now wrote to the effect that he was endeavouring to make arrangements so as to avoid any claim on the Board.

### Birmingham.

Mr. Marshall Freeman, barrister-at-law and pharmacist, has been re-elected Chairman of the Patents, Designs, and Trade-marks Committee of the Birmingham Chamber of Commerce.

At the Commercial Travellers' Conference held at Birmingham on June 1, 2, and 3, Mr. Thos. Swales, Vice-Chairman of the Leeds branch, moved a resolution urging upon the Government the necessity of including in future electoral legislation a clause enabling commercial travellers to vote by proxy. The Conference agreed to the resolution.

### Sheffield.

Messrs. Levi Tom Goucher & Co., chemists and druggists, 66-68 Howard Street, are removing their business, which has been established many years, along with a Midland Railway collecting depot, to 83 Howard Street.

The new Formulary, issued by the Sheffield Panel Committee, is now on sale at the Sheffield Insurance Offices, 41 Church Street, price 1*s.* As there is a considerable difference from the old Formulary, to avoid confusion, it would be well for panel chemists to procure a copy.

The sales of the Drug Department, Infirmary Road, of the Brightside and Carbrook Co-operative Society for the quarter ended April 27, 1914, have amounted to 207*l.* 16*s.* 7*d.* With drugs transferred to other departments, 217*l.* 4*s.* 3*d.*, as compared with the previous twenty-six weeks, 415*l.* 5*s.* 10*d.*, and drugs transferred 173*l.* 18*s.* 8*d.* Their Nurse Gration's Malted Food, at 8½*d.* per tin, and Nurse Gration's Infants' Friend, 10½*d.* per bottle, for teething troubles, are being specially pushed. A rumour is abroad that the Brightside and Sheffield Societies may amalgamate and establish Insurance-dispensing departments in various parts of the city.

### After Forty Years.

In connection with the marriage of Mr. Thomas Tame, chemist and druggist, Bournemouth, and Miss E. J. Chesswas, formerly of Twickenham, several newspapers report that forty years ago Mr. Tame, while an assistant in a chemist's shop at Kingston-on-Thames, fell in love with Miss Chesswas, who at the time was staying with her grandparents at Kingston, and she and Mr. Tame were workers in connection with the Kingston Wesleyan Church. Miss Chesswas's parents would not consent to an engagement, however. Mr. Tame left Kingston for Bournemouth, where he established a prosperous business, and entering public life he became, and still is, a Town Councillor of Bournemouth. He married and brought up a family. Two years ago his wife died, and later Mr. Tame met Miss Chesswas, and the renewed acquaintanceship has ripened into marriage.

### From Various Courts.

At North London Police Court on June 6, a summons was applied for against Arthur James Barnett for smuggling drugs to Miss Roe, a suffragist prisoner in Holloway Gaol. Counsel related that on May 26, just where Roe was standing in prison, a broken glass tube was found wrapped in a letter. The tube contained tablets of apomorphine hydrochloride, which, it is alleged, had been taken by the prisoner so as to produce vomiting and thus to expedite her release under the Temporary Discharge of Prisoners Act. The summons was granted. —It is stated that documents dealing with the mode and effect of the administration of certain drugs were seized by the police during a raid, on June 9, on the headquarters of the militant suffragists in Tothill Street, Westminster.

At an inquest held at Hounslow on June 10 in regard to the death of Kate Addison Scott at Springrove House, Isleworth, which is under the control of Mr. Orlando Edgar Miller, "teacher, lecturer, and healer," the latter gave evidence, and informed the Coroner that his work is "higher-thought" healing. He had never held himself out as a physician, but studied medicine and mechanical healing at Denver University College, U.S.A. Deceased went to his lectures at Bechstein Hall and asked him to cure her paralysis at his home. She paid five guineas per week. He gave salts, also administered injections of cascara and scopolamine, and kept her without food for two days and a night. On Saturday the deceased vomited considerably, and his nurse told him she was worse, and he sent to London for a physician, who did not come till Sunday afternoon. On his advice the deceased's own private physician was sent for, but she collapsed before he came. The Coroner commented on the dangerous character of scopolamine, and adjourned the inquest.

## IRISH NEWS.

**Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.**

### Brevities.

Mr. R. F. Blake, F.I.C., Belfast, has been reappointed analyst to the Londonderry Board of Guardians.

Mr. J. McMullan, R.D. (late of Sir Wm. Baxter's pharmaceutical establishment), has opened a drug-hall at 26 Church Street, Coleraine.

At the annual meeting of the Magherafelt Board of Guardians last week Mr. J. E. O'Neill, J.P., registered druggist, was re-elected Chairman.

Ballymena Urban Council has passed a resolution placing on record the services rendered to the town by the late Mr. Samuel Bonnar, who was formerly a member of the Council.

Mr. M. J. Howard, Ph.C., has opened a medical hall at Kilrush, co. Clare. Mr. Howard has had experience in Dublin, Drogheda, and Galway, and for three years was manager of Dr. Grealy's medical hall in Galway, afterwards becoming dispenser at the workhouse.

The death took place on June 4, at Aghalee, co. Antrim, of Mr. James Logan, who was well known to many members of the drug-trade in Ulster. He was one of the original directors of the firm of Deans, Logan & Co., Ltd., cordial-manufacturers, Belfast, but retired some years ago.

Two men named Cruise and Donovan were on March 8 charged at the Dublin Southern Police Court with breaking into the residence of Dr. J. C. McWalter, Ph.C., at 5 Rathdown Terrace. The house had been left for a short

time unattended. When the servant returned the contents were found in a state of confusion, and various silver articles were missing. The prisoners were remanded.

At the annual meeting of the Irish Medical Association the President (Dr. Leonard Kidd), in the course of his address, referred to the intention of the British Medical Association to strengthen the position of the Section in Ireland. He said there is not room for two Associations in Ireland, and he hoped that some of the 250 members that the British Medical Association had lost would see that it is to their interests to join the Irish Medical Association.

### Apothecaries' Hall of Ireland.

The examiners have recommended that the following candidates should be allowed the Preliminary examination: D. C. McDougall, F. Fitzpatrick, J. McCarthy, A. S. MacDowell, D. McCarthy, C. G. Reavy, J. E. Cooke, J. Corcoran, M. J. Foley. The next examination will be held on October 5 and 6.

### The Chemists' and Druggists' Society.

A meeting of the committee of this Society was held at 11 Waring Street, Belfast, on June 8, the President (Mr. W. J. Gibson) in the chair. There was a good attendance. On the motion of Mr. W. J. Rankin, seconded by Mr. S. Nevin, a vote of condolence was passed with Mrs. Bonnar, Ballymena, on the death of her son, Mr. Samuel Bonnar, who was for many years a member of the Society. The question of a summer outing was discussed, and it was agreed to have a picnic to Portferry on July 1, proceeding by motor char-a-banc around the coast of the Ards peninsula. The arrangements were left in the hands of a sub-committee.

## SCOTTISH NEWS.

**Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.**

### Aberdeen and the North.

Mr. W. G. Reid, chemist and druggist, has removed to new premises at 116 High Street, Wick.

Professor F. R. Japp, F.R.S., F.I.C., who has filled the Chair of Chemistry in Aberdeen University for the past twenty-four years, has resigned.

The "Aberdeen Evening Express" of June 5 commented editorially upon the new distinction acquired by Aberdeen—that of being the most striking example in the Kingdom of a city devoted to the drug-habit. The article pointed out that while the State has placed new restrictions upon the sale of alcohol, every encouragement has been given for the acquirement of dangerous drug-habits since the coming of the Insurance Act.

### Edinburgh.

Mr. R. Glode Guyer, Ph.C., has been elected President of the Edinburgh Photographic Society.

A wooden shed, about 50 feet long, belonging to Messrs. Raimes, Clark & Co., Ltd., wholesale druggists, Smith's Place, Leith, was destroyed by fire on the morning of June 8.

Employés and friends of Messrs. Harkness, Beaumont & Co., wholesale chemists, drove to Elphinstone on June 6. Nearly sixty persons participated in an enjoyable outing.

At the first general meeting of the Edinburgh and Leith Merchants' Defence Association, Ltd., Mr. J. A. Forret, chemist and druggist, Brougham Place, was elected Hon. Secretary.

Mr. W. L. Edward, who sold his pharmacy some time ago to Mr. George Hall, chemist and druggist, formerly in business at Montrose Terrace, is setting out on a world tour, accompanied by his wife.

Mr. D. Mason, chemist and druggist, found in the Arboretum the dead body of a missel thrush, with an aluminium ring attached to its leg, bearing the inscription "Aberdeen University 31/950."

One of the victims of the *Empress of Ireland* disaster is Miss Kate Miller, Ontario, aunt of Mr. Alexander Miller, chemist and druggist, who served his apprenticeship with Mr. D. W. Nicolson, Leith Walk.

John Christie, a chemist, residing at 12 St. Peter's Place, entered the water of the Union Canal near Viewforth Bridge, with the object of rescuing a little girl of seven, who had fallen into the water. Other assistance, however, was forthcoming, a painter working in the vicinity reaching the girl first and bringing her to the bank.

A botanical excursion of the Edinburgh Chemists', Assistants', and Apprentices' Association took place on Wednesday, June 3, to Longniddry, under the joint leadership of Mr. Lockerbie Thomson, B.Sc. (Vice-President), and Mr. A. A. W. Cuthbertson, Ph.C. The weather conditions were exceptionally fine, and a most enjoyable and profitable time was spent.

At a meeting of the Highland and Agricultural Society held in Edinburgh on June 3, Dr. J. F. Tocher, F.I.C., Aberdeen, chemist to the Society, submitted his half-yearly report. In all 83 samples were examined, these including fertilisers (35), feeding-stuffs (12), waters (25), milks (6), soils (3), and miscellaneous samples (2). Of 25 samples of water, 13 were found to be of good quality, and 12 bad from the bacteriological and chemical standpoints. One sample was found to have a high proportion of dissolved solid matter, but was quite free from injurious organic constituents and from dangerous micro-organisms. Many such samples are got from wells and springs near the coast, and there is no danger to health in using such a water, the chief objection to its use being its somewhat unpalatable taste.

### North British Branch.

A meeting of the members of the Pharmaceutical Society will be held at 36 York Place, Edinburgh, on Wednesday, June 17, at 11 A.M., to elect seventeen members of the Executive. The following twenty-one persons have been nominated, and have signified their willingness to stand:

Boyd, William George, Kilmarnock.
Cowie, William Beaverly, Edinburgh.
Currie, Archibald, Leith.
Doig, William, Dundee.
Drummond, Robert Gordon, Falkirk.
Fisher, John Hutchison, Dunfermline.
Forret, John Alexander, Edinburgh.
Giles, William, Aberdeen.
Gilmour, James Pinkerton, Glasgow.
Glass, William Stephen, Edinburgh.
Guthrie, Thomas, Clydebank.
Jack, James, Arbroath.
Lennox, James, Glasgow.
Mackenzie, Thomas, Inverness.
McMillan, Anthony, Glasgow.
Murray, Alex., Glasgow.
Nesbit, James, Portobello.
Robin, Hugh Millar, Edinburgh.
Sinclair, Robert Hodge, Helensburgh.
Storrar, David, Kirkcaldy.
Wilson, William Potter, Haddington.

### Glasgow and the West.

The business of chemist and druggist formerly carried on by Mr. S. Hudson at 135 Glasgow Road, Dumbarton, has now been taken over by Mr. George Sutherland.

In the report of the Scottish Licensed Trade Defence Association issued on June 3, it is stated that methylated spirit is too easily obtained, and further restrictions on its sale are advocated.

Dr. John Brownlie, physician of Ruchill Hospital, near Glasgow, has resigned the position consequent on his appointment under the Government Medical Research Committee as medical statistician.

At the annual meeting of the General Council of the Scottish Clerks' Association, held at Glasgow on May 30, regret was expressed that the Insurance Commissioners had declined to accept the Association's medical scheme, and it was stated that many of the members are still far from satisfied with the panel system, and not a few of them are taking the Association's medical fund in preference to having a panel doctor.

Treatment of Sprue.—The combination of emetine injections and mouth streptococcal vaccine is being successfully employed at Calcutta in the treatment of sprue. Lieut.-Col. Leonard Rogers, M.D., reports two cases in "The Lancet," 1914, II., 1605.

## FRENCH NEWS.

(From the "C. & D." Paris Correspondent.)

Two Mineral Springs at Vittel, the "Grande Source" and the "Source Salée," were officially acknowledged as "of public interest." It was subsequently noticed that these two springs were being affected by excavations, a 150-foot boring having been effected near the former, and some excavations made during some railway work having led to a visible leakage of the last-named. A second decree was accordingly issued on May 3, 1912, according a "perimeter of protection" to the local mineral springs company. Certain inhabitants of Vittel pretended that in doing this the Government were simply protecting the interests of the said company, and not acting in the interests of public health. They accordingly laid their case before the Conseil d'Etat; but this high juridical authority refused to admit the theory of the plaintiffs. Proper expert advice had been taken as the law directs, and according to this expert evidence the official decree had been drawn up. The group of residents was accordingly non-suited.

Counter-prescribing.—The judgment pronounced against M. Guibert, pharmacist, of Varades (Loire-Inférieure), by the Ancenis Court, for illegally practising medicine, has been reversed by the Rennes Court of Appeal. Dr. Gillard, a local practitioner, was behind the action, and the Ancenis Court held that "indicating a remedy to a patient infringes the attributions of the doctor." M. Guibert was therefore ordered to pay Dr. Gillard 8*l.* as damages. The local Pharmacists' Association advised M. Guibert to appeal, and the Appeal Court, insisting less on the letter and more on the spirit of the law, found that Guibert had neither questioned the patients nor diagnosed their case, but contented himself with selling the pharmaceuticals demanded. So the Court allowed the appeal and acquitted him. The Advocate-General, commenting on the case, remarked that to condemn M. Guibert would mean preventing persons suffering from trifling illnesses or indispositions from going to fetch harmless remedies which are habitually bought at pharmacies. These patients would not in any case go to the doctor; they would fall back on the amateur prescriber or village quack, and public hygiene and medicine would not be the gainers.

Foreign Specialities in France.—The action brought by M. Goblin, French representative of Dr. Williams' Medicine Co., against M. Hudry, for the imitation of "Pink Pills," which was reported in this journal some time ago, has had a curious sequel. The defendant is a pharmacist, and was fined for imitation of a trade-mark, but in his counter-action against the company he has in his turn secured a favourable decision. He submitted (1) that the Pink Pills are a "secret remedy," and therefore in contravention of the Law of Germinal; (2) that such preparations largely advertised and sold diminish the pharmacist's sale of ordinary medicaments. These contentions were practically admitted by the Court, but he was refused the 400*l.* damages which he claimed, "no justification having been presented by Hudry as to the reduction in his turnover" caused by the advertising of the pills. The Court found Goblin "guilty of having, by retailing the secret remedy known as Pink Pills, committed the offence defined and punished by Articles 32 and 36 of the Law of Germinal," and fined him 4*l.* accordingly. The "secret-remedy" dictum was based by the Court on the fact that the formula "did not figure in the Codex," that it "had not been purchased by the Government," or "inserted in the Bulletin of the Academy of Medicine."

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Local Telephone List.—Mr. Rex Blanchford, chemist and druggist, High Street, Wimbledon, and Hill Rise, Richmond, has brought out the third edition of the "Putney, Roehampton, Barnes, Sheen, and Wandsworth Local Telephone List." It is a useful publication. Mr. Blanchford utilises it as an advertising medium, and finds it effective.

## British East Africa News.

(By the "C. & D." Correspondent.)

Opium-smuggling.—At the Magistrate's Court, Mombasa, on May 5, an Indian was fined Rs. 1,500, or three months' imprisonment, for importing opium from Zanzibar. This is the maximum punishment for the offence. The Indian is to serve the term of imprisonment.

A Nurse's Experience.—As an example of what to expect in this country, the experience of a nurse may be mentioned. Nurse Mee was returning on mule-back from Donyo Sabuk to Nairobi at night, and encountered two lions. The mule bolted and threw its rider, who lay unconscious on the veldt in the pouring rain. When the nurse recovered consciousness she crawled to a farm near by, and was conveyed to Nairobi, where she is recovering from her injuries.

The Annual Report of the British East Africa Protectorate shows the record revenue of 952,525*l.*, and for the first time since the establishment of the Protectorate no grant in aid of general revenue was required. The net import and export duties for the year ended March 30 amounted to 172,085*l.*, the largest sum yet collected in one year. The value of the exports was 421,084*l.*, the chief items being grain and oil-seeds, hides, copra, and rubber. The export of ivory shows a decline. Mica and graphite deposits have been discovered, but agriculture and stock-raising are still the staple interests.

Pilfering.—It is seldom that chemists in these parts have cause to complain of pilfering of goods in transit, although grocers are always complaining of cases arriving empty or half-empty. Recently, however, chemists' goods have been receiving the unwelcome attention of thieves. A case containing euthymol tooth-paste consigned to one firm had had the bottom removed and 4 doz. tubes abstracted, while another case in the same consignment arrived with ½ doz. Florida water instead of 2 doz. One of the most remarkable, however, was a case containing "Tabloid" products, which are usually exceptionally well packed in tin-lined cases and hooped with iron; these hoops had been removed, however, the lid taken off, and a hole cut in the centre of the tin lining, and nearly all the quinine tabloids taken, the other tabloids being left untouched. This sort of thing is very annoying, and means a considerable loss, for although the goods are insured it takes a few months before they can be replaced from London—the nearest depôt.

Pharmaceutical Society.—A general meeting of the Society was held in Nairobi on May 5 to discuss further the Agricultural Poisons Rules, and to hear the result of the interview the Hon. Secretary had had with Mr. Wright, solicitor, regarding the opposing of the granting of poison-licences to several firms which have advertised that they are applying for them. It was ultimately agreed to send a letter, as drafted by Mr. Bull, to the Provincial Commissioners protesting against the granting of these licences, and setting forth the Society's views in the matter. The Principal Medical Officer asked that he should be kept in touch with what the Society is doing in the matter, and it was therefore decided to send a copy of the letter to the P.M.O. and also to the Chief Veterinary Officer. Mr. Harper (President) entertained Mr. B. A. Bull and other members of the Society to dinner at the Stanley Hotel previous to the meeting, and at the close made a presentation to Mr. Bull, as it was the last meeting at which Mr. Bull would be present. The President, in referring to the coming departure of Mr. Bull from the Protectorate, said that during his (Mr. Bull's) residence there of nearly three years he had always had the best interests of the trade at heart. As a member of the Pharmacy Board, Mr. Bull had given up a good deal of his time, and had rendered considerable assistance to his colleagues on the Board by his intimate knowledge of pharmacy law; and since the formation last year of the Pharmaceutical Society of British East Africa and Uganda Mr. Bull's suggestions and advice have always been a feature of the meetings. The President further said that the members of the Society had decided to show their esteem for, and thanks to, Mr. Bull by asking him to accept, as a souvenir of "Darkest Africa," a mounted "rhino" foot, suitably engraved, and added that, in the name of the members of the Society, he wished Mr. Bull a safe and pleasant voyage to the Old Country, and success in any enterprise upon which he might embark. References were also made to Mrs. Bull and their son. The following have been elected new members of the Society: Messrs. Ludovic George, A. D. Dias, J. Davis Buckland, and C. Chorley.

# SOUTH AFRICAN NEWS.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is subscribed for and supplied weekly to all the members of the seven Chemists' Societies in British South Africa.

### The Union.

MEDICAL BILL.—In the Union Parliament Mr. Kuhn moved that the Government be requested to introduce a Bill during the present Session so as to amend the laws of the Union governing the right to practise in the Union. Persons born in South Africa who obtain their medical qualification in Europe are not allowed to practise in certain parts of South Africa. The making of regulations under the Medical Act was left to the Medical Council, and no effect has been given to the recommendation of the Select Committee of the Cape Parliament of 1905 that sons of British subjects residing in the Cape should be able to conclude their medical studies at any recognised University. Dr. Hewat said that Italy and Japan are the only countries which grant the right of practice in their territories to British practitioners, and it was on the reciprocal position that the matter rested. The Medical Council agreed that South African-born boys should be allowed to study where they liked for the purpose of registration, and had approached the Government with a view to obtaining an amendment of the Medical Act to carry out this intention. Dr. Macaulay emphasised the need for reciprocity among all the States of the Union. The Minister of the Interior said the Government hoped to introduce a Bill on the lines indicated during the present Session. The difficulty had been to find time for controversial measures.

# INDIA AND THE EAST.

(From the "C. & D." Correspondents.)

SODA-WATER IN CEYLON.—The report of the Ceylon Government analyst for 1912-13 states that 27 per cent. of the water-supplies examined failed to satisfy the most ordinary standards, and 48 per cent. showed evidences of serious pollution. Several cases in which the water was used by soda-water manufacturers disclosed facts of a particularly revolting nature, says the "Ceylon Times," which adds that the evidence shows the urgent necessity for constant Government inspection of such factories, particularly of the less known ones.

S.S. NEWS.—Upon representations made by the Straits Pharmaceutical Association the Government has introduced in the amendment to the Liquors Revenue Ordinance, 1909, a clause whereby licensed chemists and druggists may sell absolute alcohol and rectified spirit in quantities up to 2 galls. for purely medical and scientific purposes. It may not, however, be supplied without first obtaining the signature of the Superintendent of Government Monopolies to each order for such spirits. While this is a much appreciated concession, it does not allow for the supplying of spirit on prescriptions without considerable delay, and the Association is to bring this before the notice of Government.—The Dispensary, Ltd., has now opened its new premises in the building formerly occupied by the Banque de l'Indo-Chine in Raffles Square, Singapore. The fittings are of teak. The old Dispensary building in Battery Road is now razed to the ground to make way for the new building for the Chartered Bank of India, Australia and China.—Money is still very tight in the Settlement, due partly to the failure of the Chinese Kwong Yik Bank and partly to the depreciation of tin and rubber. The policy among the chemists is one of marking time as regards purchasing.

AVICENNA'S TOMB needs restoring, stated Sir William Osler at a recent meeting of the Royal Society of Medicine. The cost of repair and the expense of maintaining a watchman is estimated to be between 500*l.* and 600*l.* The Persian Government is to be approached regarding the proposal.

# LEGAL REPORTS.

## TRADE LAW.

**The Hannah Case.**—Mr. T. Hannah, of Amersfoort, Transvaal, whose appeal on May 25 to the Privy Council against his conviction, under the Transvaal Ordinance 29 of 1904, on a charge of, while unregistered, performing acts specially belonging to the calling of a chemist or dentist, was dismissed (*C. & D.*, May 30, p. 43), is again applying for leave to appeal against his conviction. His ground for renewing his application is that at the hearing he was temporarily unable to comply with the request to give his interpretation of Section 39, and that in consequence the Privy Council had only a summary of his contentions. Mr. Hannah's main points are that the section should not be divided, as it was in his case, and that the section as a whole aims at fraudulent practice only. [Mr. Hannah refers to his case in the advertising columns of this issue.]

**Sale of Bonovin.** Three Chesterfield licensed beer-house-keepers have been summoned for selling intoxicating liquor without a Justices' licence. It was explained to the Magistrates that in April last a Mr. Hempsall opened a store at Chesterfield, and received a consignment of thirty-seven cases of Bonovin. He went round to the publicans and sold this wine, which was retailed at 3*d.* per glass. It being a British wine, a sweets-licence is necessary for its sale. Mr. John Evans, Ph.C., F.I.C., stated that his analysis of the sample of Bonovin showed it to contain 12.56 per cent. of absolute alcohol by weight. The Magistrates, believing the defendants had erred in ignorance, dismissed the summonses on payment of costs. The hearing of summonses for aiding and abetting one of the beerhouse-keepers to sell intoxicating liquors, and selling liquors without a licence, which had been brought against John Henry Hempsall, Compton Street, Chesterfield, was adjourned for a fortnight.

### Pharmacy Acts (Ireland).

AN UNQUALIFIED OWNER.

The hearing of the summonses, at the suit of the Pharmaceutical Society of Ireland, against Mr. Patrick M. Nugent and Mr. Joseph Ellis was proceeded with in the Southern Divisional Police-court, Dublin, on Friday, June 5, before Mr. Swifte, K.C., Chief Metropolitan Police Magistrate. The hearing had been adjourned on May 22, on the application of the solicitor for the defendants. (See *C. & D.*, May 30, p. 46.) There were four summonses against Mr. Nugent, charging him:

(1) With having on April 2, at 23 Nassau Street, Dublin, kept open shop for dispensing or compounding medical prescriptions, he not being a person properly qualified;

(2) With having on April 3 kept open shop for retailing, dispensing, or compounding poisons;

(3) With failing to furnish to the Registrar of the Pharmaceutical Society of Ireland a statement of the name and address of the *bona-fide* proprietor or proprietors of the shop 23 Nassau Street, and, if such proprietor or proprietors do not personally manage or conduct the shop, the name of the duly qualified manager or assistant managing or conducting it, and the description of his qualification; and

(4) With having on April 28 kept open shop for dispensing or compounding medical prescriptions.

Mr. Ellis was charged (1) with having on April 3, at 23 Nassau Street, sold laudanum, he not being properly qualified; and

(2) With having on April 28 compounded laudanum otherwise than according to the formularies of the British Pharmacopœia.

Mr. Wm. C. Meeke, solicitor, appeared for the Pharmaceutical Society; and Mr. Christopher Friery, solicitor, appeared for the defendants.

Mr. Meeke, in stating the case for the prosecution, said that five of the six summonses were brought under Section 30 of the Pharmacy Act (Ireland), 1875. The summons against Mr. Nugent for failing to furnish certain information to the Registrar of the Pharmaceutical Society was brought under Section 18 of the Amendment Act, 1890. Mr. Meeke proceeded to say that three or four years ago Mr. Nugent purchased an old-established business in Nassau Street carried on by Mr. Ray, who was a qualified pharmaceutical chemist. After the purchase Mr. Nugent carried on the business. Mr. Nugent had served his apprenticeship to the pharmaceutical

business, and had gone in three times for his qualifying examination and had three times failed. Mr. Ray carried on business as tutor and grinder in premises above the shop. Over the shop were the words "Medical Hall," and on the front door were the words "John Armstedt Ray, M.A.T.C.D., M.P.S.I., Analytical Chemist. Homœopathic Dispensary." Mr. Nugent apparently did not carry on his business with any great success, because in March of the present year he presented a petition for an arrangement. On the investigation of matters relative to that petition for the first time the facts which he (Mr. Meeke) had mentioned came to the knowledge of his clients, the Pharmaceutical Society; and the moment they learned these facts they, of course, were bound to see that the law was carried out.

Mr. Swifte: Was Mr. Nugent's name not up?

Mr. Meeke: No. The name "John Armstedt Ray" was up.

Mr. Swifte: If Mr. Nugent's name was there they would have known that he was not a member of the Society?

Mr. Meeke: Yes, and they could have taken the proceedings now taken. When they learned the facts their inspector was instructed to visit the shop to get evidence for these proceedings. He went first on April 2 and handed a prescription, written by a duly qualified medical man, to Mr. Ellis, the assistant, by whom it was compounded. The inspector paid 1*s.* 6*d.* for it.

Mr. Swifte: It was made up by the assistant?

Mr. Meeke: Made up by the assistant. But as a matter of fact, whether it was made up by a duly qualified assistant—and we submit it was not—or made up by Mr. Nugent himself, the fact remains that Mr. Nugent was guilty of the statutory offence of keeping open shop.

Mr. Swifte: Having a qualified assistant would not save him?

Mr. Meeke: Certainly not. [The case of the London and Provincial Supply Association was cited in proof of this.]

Mr. Swifte: A company may have a qualified assistant, but the individual may not?

Mr. Meeke: That is so. He proceeded to say that on April 3 Inspector Butler again visited the shop and made further purchases, including a plaster for a pain in his back. This brought him (the prosecuting solicitor) to the ugliest feature in the case, and there were two very ugly features in it. Inspector Butler asked for laudanum to sprinkle over the plaster. Ellis came back with a liniment in a small bottle and stated that it was better than laudanum, and that they could not sell laudanum, as they would be liable to a penalty of 50*l.* The inference he (Mr. Meeke) drew was that the incident clearly showed that Mr. Ellis had knowledge that the place was open wrongly, and that they were acting wrongly in selling poisons. The inspector said the liniment was no use, and that he had used laudanum before. Ellis said he would see the manager, and ultimately 4*d.* worth of laudanum was handed to Butler. That laudanum had been analysed, and it corresponded in every way with the formula for laudanum or tincture of opium as laid down in the British Pharmacopœia. Butler again visited the shop on April 28, and again had the prescription made up. He was attended by Mr. Ellis, whom he saw making up the prescription. He also purchased some trifles, including 3*d.* worth of laudanum. This brought him (the prosecuting solicitor) to the second ugly feature in the case. This second bottle was also analysed, and the analyst's report showed that it was not laudanum; that, in fact, it had no resemblance whatever to laudanum. Mr. Walter Thorp, the analyst, reported:

"I beg to report on a sample of laudanum handed me by your inspector, Patrick Butler, yesterday, and labelled 'Laudanum. Poison. John A. Ray, L.P.S.I., The General Medical Hall, 15 Nassau Street, Dublin.' Also labelled with a written label as follows: 'Laudanum purchased from Joseph Ellis, assistant in John A. Ray's Medical Hall, Nassau Street, Dublin, on 28th April, 1914. Patrick Butler, inspector.' I failed to find any morphine in this sample. The other properties of the sample were very different from those of a genuine sample. I give some figures and also the standards of the Irish Local Government Board for comparison:

| | Ray's Sample. | L.G.B. Standard. |
|---|---|---|
| Specific gravity ... | 0.9134 | 0.95 to 0.965 |
| Solid residue ... ... | 6.60 gram/100 c.c. | 3.0 |
| Alcohol by volume ... | 69.79 | 42.0 |

Mr. Meeke proceeded to say that on April 28 Mr. Ellis was determined that he would not break the law by giving the inspector laudanum, but that he would take the risk of giving him something he had not asked for. As regards the summons against Mr. Nugent for not replying to the notice, Mr. Ferrall, Registrar of the Pharmaceutical Society of Ireland, on April 8 posted a registered notice which literally followed the words of the 18th Section of the Amendment Act, 1890, requiring the proprietor within seventeen days to furnish him in writing with a statement of the name of the *bona-fide* proprietor or proprietors of the shop, and if such proprietor or proprietors did not personally manage and conduct the shop, the name of the duly qualified manager or assistant managing or conducting it and the description of his qualification. Mr. Ferrall's letter also stated that neglect to comply with the terms of the notice would render the proprietor liable to the penalties referred to in the section. Only, said Mr. Meeke, that Mr. Nugent had not prospered he might still have been breaking the law, and the Pharmaceutical Society, guardians of the public interest and of their own professional rights, would have been left in ignorance.

Mr. Swifte: Is the business carried on still?

It transpired that the Official Assignee closed the shop the moment the facts and the law were brought to his notice. [Here there was a passage between Mr. Meeke and Mr. Friery as to how this was brought about.]

Evidence was then called in support of Mr. Meeke's statement. The first witness was Mr. Patrick Butler, who got a prescription of Dr. Curry's dispensed by Ellis on April 2, and made the subsequent purchases. He was cross-examined by Mr. Friery.

Mr. Walter Thorp, F.I.C., gave evidence as to his analysis, and Mr. A. T. Ferrall deposed as to posting the statutory letter regarding the management, and Mr. Nugent having failed to pass the Qualifying examination in October 1909, in April 1910, and in April 1913. Both these witnesses were also cross-examined by Mr. Friery.

Mr. John A. Ray, Ph.C., was next called. He stated that his father had owned the business at 23 Nassau Street, and on his death it was carried on under witness's management for Mrs. Ray, his mother, until 1910. It was then sold to Mr. Nugent. The purchase-money arranged was 450*l.*, but the whole amount was not paid down. Witness carried on business as tutor and grinder, and his chambers were above the shop. His name remained on the hall-door, and Mr. Nugent was the proprietor up to the time of the arrangement. In cross-examination by Mr. Friery witness admitted when the business was sold the contract was that he should continue in the place there under Mr. Nugent to superintend and manage for him, and he was there every day to be consulted. Mr. Friery having quoted from the contract deed,

Mr. Swifte remarked, "It is Mr. Nugent's business, because Mr. Ray is not to be liable for any debts."

Mr. Friery said Mr. Nugent himself would not be entitled to carry on the business. Mr. Nugent was advised by a firm of solicitors that as the whole of the purchase-money was not paid Mrs. Ray or her representative, Mr. Ray, remained and had a lien upon the place for the unpaid purchase-money. The whole of the purchase-money had not been paid up to the present. He (Mr. Friery) never contended that Mr. Nugent would not be guilty of a technical offence. He did not want to defend his action. But he had acted under advice, and for a certain period during which these offences were alleged he was not carrying on the business at all. The Messenger of the Court was in possession and was carrying on the business.

Mr. Ray, re-examined by Mr. Meeke, stated that 200*l.* was to be paid down, and he had since received 45*l.* in addition to the 200*l.*

Mr. Meeke having handed in certain documents in proof, the case for the prosecution closed.

Mr. Friery said the business had ceased to be carried on. Notwithstanding his friend's contradiction he had thought it only fair when the case was last before the Court to go straight to the Assignee and express his opinion that the business ought to be discontinued. The Assignee was inclined to agree with him, and he left the Assignee in the belief that the shop would be closed forthwith. He was not saying a word against the Society. They were acting in the interests of the public, and it was proper that they should see that the duties of chemists were carried out by fully qualified men.

Mr. Swifte : I have not heard much about Ellis.

Mr. Friery : The same thing applies to him. I think he is wrong and I have so pointed out to him. He thought that being advised by this firm of solicitors under the terms of this agreement he was entitled to carry on the business as he did.

Mr. Meeke said that what influenced his clients most strongly in this particular case was the hopelessly illegal covering agreement entered into between Mr. Ray and Mr. Nugent. His clients instructed him to say that what emphasised the hopeless illegality and the hopeless wrong of the whole case was that Mr. Ray was one of their own examiners and one of their officers, and he entered into a sort of conspiracy with Mr. Nugent to have this business carried on under the cover of Mr. Ray's name by Mr. Nugent, this gentleman who had proved himself again and again hopelessly unable to pass the standard of the Pharmaceutical Society.

After some discussion Mr. Swifte decided to impose a penalty of 1*l.* on each of the summonses and to allow 10*s.* costs on each of them.

## Sale of Food and Drugs Acts.

### Easton's Syrup.

As briefly reported in our Coloured Supplement last week, William Henry Clarke, chemist and druggist, 51 Plumstead Road, Plumstead, was summoned at the Woolwich Police-court on June 4, under Section 6 of the 1875 Act, for selling Easton's syrup certified to be deficient in iron to the extent of 97.44 per cent. Mr. F. Fernihough, Deputy Town Clerk, prosecuted, and Mr. C. H. Kirby, instructed by the Chemists' Defence Association, represented the defendant.

Mr. Fernihough, in his opening, stated that the British Pharmacopœia sets out the formula for this preparation on page 327, and it is also in the "Codex" published by the Pharmaceutical Society. Defendant had put in a so-called warranty, which was simply a price-list, and there was no connection between it and the notice on the label.

Inspector Rance proved the purchase, and in cross-examination stated that the bottle bore the label of Messrs. Baiss Bros. & Stevenson, Ltd. The bottle had been opened, but nothing taken from it.

Mr. Symmons : I should like to know why strychnine and quinine are grouped together on the analyst's certificate. However, they may have to be grouped together.

Dr. Sidney Davies, medical officer of health, produced a copy of the British Pharmacopœia, and explained that the formula on page 327 for the preparation syr. ferri phos. c. quinin. et strych. is known as Easton's syrup. The most important ingredients are iron and strychnine, and the effect of the sample, having an infinitesimal portion of iron, would be comparatively useless.

In cross-examination, witness admitted that iron is the cheapest ingredient except water; so it would not be for the purpose of saving money that anyone would omit it.

Mr. Kirby said he had given notice of a warranty, and intended to rely upon it.

Mr. Fernihough : I admit the notice, but dispute the warranty.

Mr. Kirby, in addressing the Magistrate, objected that on the analyst's certificate strychnine and quinine, which were very important ingredients, ought to have been set out separately. The form of the certificate is prescribed by Section 18 of the Act of 1875, and on the form adopted by the analyst it was his duty to set out the whole of the constituent parts, stating the result of his analysis and the quantity found of each one of them. That the analyst had not done, but had lumped together two important ingredients. Mr. Kirby quoted the case of Fortune *v.* Hanson, and said that, although the cases were not exactly analogous, the judgment of Mr. Justice Hawkins was sufficient to cover the objection he had taken. Here the analyst had not set out the parts of which the sample was composed, because he had lumped together quinine and strychnine. As regards the warranty, the notice which he had given was the warranty contained in the price-list issued by Messrs. Baiss Bros. & Stevenson, in which they said :

"We send all manufactured preparations of the official standard, unless otherwise ordered."

Mr. Fernihough had said the standard was the British Pharmacopœia. Defendant bought this syrup from Messrs. Baiss Bros., and there was no question of the identity of the two names. What the defendant was entitled to expect, apart from any warranty, was an article as prescribed in the Pharmacopœia. Those words could only have the effect of being a warranty, and without them defendant would still be entitled to have an article of British Pharmacopœia composition. Reverting to the question of the certificate, Mr. Kirby said nothing was shown as to the quantity of quinine or strychnine.

Mr. Symmons : I agree with you if there was a deficiency of quinine or strychnine, but this is a deficiency of iron.

Mr. Kirby asserted that the words contained in the price-list were sufficient to constitute a warranty. A warranty is very much a question of intention, and if there were any doubt at all as to the intention of Messrs. Baiss giving what he (Mr. Kirby) contended was a warranty he thought it was removed by a letter written by them to Mr. Clarke on April 17.

Mr. Fernihough objected to the letter being read, as it was written after the sale to Mr. Clarke.

Mr. Kirby submitted that the warrantors were party to the proceedings, and were entitled to take part in them. Surely a letter written by them was evidence which could be taken into account.

Mr. Symmons : Even if they were here taking part in the proceedings evidence of a letter written by them would be evidence against them, and not in their favour.

Mr. Kirby : I ask you to hold as between Mr. Clarke and Messrs. Baiss that they have given him a warranty.

Mr. Symmons : I cannot admit that.

Defendant then gave evidence which was to the effect that the syrup sold to the inspector was in the same condition as he received it from the wholesale house mentioned. In the course of witness's examination the Magistrate read the following extract from the price-list :

"Crude drugs at the highest price stated on list are (with few exceptions) in conformity with the characters and tests of the British Pharmacopœia, 1898. We send all manufactured preparations of the official standard, unless otherwise ordered."

Witness agreed that "official standard" means the British Pharmacopœia. In cross-examination by Mr. Fernihough, witness denied the latter's suggestion that before these proceedings he did not know those words were on the list. Witness could not explain to the Magistrate why the iron was short unless there was some bungling.

Mr. Symmons : Somebody made it up carelessly, perhaps.

Mr. Kirby handed in the letter from the firm, which was read by the Magistrate. It stated that they much regretted the article in question was a special preparation, a quantity of which was unfortunately bottled in error. Mr. Clarke was not the only one to receive some of the barrel, and they offered to defray any expense he may have been put to. The Magistrate added that that explained matters.

Mr. Kirby : Is it a fact that the absence of iron makes the preparation worthless?—Defendant : I think it is better for some people. (Laughter.)

Mr. Symmons : You have had fifty years' experience of medicines and drugs. Do you think they do much harm? —Defendant : I don't believe in medicine myself. (Laughter.)

Mr. Symmons : I thought you would not. (Renewed laughter.)

In giving his decision, Mr. Symmons said it was an absolutely proper prosecution, because it is most important that people who are having medicines should have them of the proper standard and quality. In any prescription it is essential they should have what they are ordered to have. He was sorry for the manufacturers, who are a firm of repute. It was an act of carelessness, and undoubtedly some mistake had been made. This time it was too little iron; next time it might be too much strychnine. (Laughter.) He would have inflicted a penalty in the ordinary way, but the defendant had been in business fifty years, and he did not think he ought to convict him. The summons would be dismissed on payment of two guineas costs.

### Glycerin of Borax.

At the Birmingham Police-court on June 5, Henry Howes, chemist and druggist, 238 Bristol Street, Birmingham, was summoned, under Section 6 of the 1875 Act, for selling glycerin of borax which was certified by the public analyst to contain borax 9 parts, glycerin 83 parts, and water 8 parts, instead of the B.P. proportions of borax and glycerin. Mr. Pritchard, solicitor, Birmingham, instructed by Messrs. Neve, Beck & Kirby, on behalf of the Chemists' Defence Association, defended.

Mr. Pritchard explained that the preparation had been made by an assistant who had been in the habit of compounding the preparation from the formula contained in the British Pharmacopœia, 1885. In that formula water was ordered to assist in the solution of the borax. The deficiency in borax in the sample sold to the inspector was due to incomplete solution.

The Magistrate dismissed the summons on payment of 5*s*. court costs.

### White Pepper.

At the Liverpool Police Court on June 10, the hearing was resumed by Mr. Stuart Deacon of the summons in which White, Palmer & Co., Ltd., London, were charged with selling white pepper containing 15 per cent. of the husks of black pepper. When the case was last before the Court it was adjourned in order that the third sample might be sent to the Government Laboratory for analysis. (See *C. & D.*, March 28, p. 59.) Mr. Deacon now said he had seen the Government chemist's certificate, and asked whether it was proposed to call any further evidence.

Mr. Duder (prosecuting) : I rely upon the certificate.

Mr. Lindon Riley (for the defence) : And I rely upon the certificate.

Mr. Duder thereupon addressed the Court, and pointed out that the summons stated that the sample contained not less than 15 per cent. of black pepper, some of which had been partially bleached. That was confirmed practically by the Somerset House certificate, which stated that the figure was about 14. The only difference was that the Government analyst was unable to find any evidence that the sample had been bleached.

The Magistrate : I understand there was no suggestion that the bleaching was for an improper purpose.

Mr. Duder : Oh, no, Sir.

Mr. Riley, addressing the Court for the defence, said the first thing the Court ought to remind itself of was that the white pepper was a sophisticated article. Nature had not sent into the world two pepper-berries, black and white, and so-called white pepper was obtained only by the activities of the natives or by mechanical agencies. For something like thirty years these defendants, and half a dozen other firms of repute throughout the world, had been engaged in precisely the same process of grading the constituents of the pepper. Counsel submitted there was an analogy in the case of flour, in which the lesser grading was refuted by many to be a better, though rougher, article. In all the examples set by the witnesses in this case they had in almost equal degrees the same constituents of pepper. Counsel also pointed out that the witness, in purchasing the sample, deliberately asked for three dozen of the little drums of white pepper, knowing that the defendants had a number of grades of pepper. Parliament had laid down that no person should with intent alter a substance so as to affect injuriously its qualities, substance, or nature. Parliament must have known that there were many articles altered from their original states, and the only aim of Parliament was to prevent them being altered injuriously. Here they had a practice which had been conducted by people of experience and integrity for at least a generation by putting in some starch or more husk, but leaving as in the sample under discussion the elements material to white pepper. They had established by the Government analyst that this sample, as to its salient food-qualities, had satisfied his test.

The Magistrate : It is clear now that white pepper ought to contain no husk at all, but owing to the fallibility of man a small amount creeps in; still, allowing 2 or 3 per cent. there is an enormous excess over that amount in this case.

Mr. Riley argued that the witnesses were agreed that even the No. 3 samples which had been produced in court were white pepper. He was proceeding to explain the process of grading when

The Magistrate said that all he was concerned in was that there was a substance sold as white pepper which contained at least 14 per cent. of black pepper. How it was produced did not matter. He was not asked to convict defendants of fraud; the only point was whether it was white pepper. He had sought in vain for a satisfactory statement from defendants' witnesses as to what a scientific definition of white pepper was. In announcing his decision, the Magistrate said in the first place objection had been taken by the defendants to the form of the certificate of Mr. Roberts (the Liverpool analyst). He (the Magistrate) confessed that at first he felt some doubt as to whether it was a good certificate, but after considering the matter and looking up the cases to which he was referred by the defence, he was satisfied the certificate was a good one. With regard to the substantial matter itself, he was satisfied that the stuff sold to Mr. Quinton was not white pepper of the nature, substance, and quality demanded. He was satisfied on the evidence that he should accept Mr. Roberts's definition of white pepper as pepper in which the whole of the husk had been removed. He was also satisfied in accepting commercial white pepper as containing 2 or 3 per cent. of husks. He accepted this definition for the purpose of his decision. Even making the utmost allowance, it was clear that in this case there was a large excess over that amount sufficient to justify him in holding that the substance sold was not white pepper, and therefore the defendants ought to be convicted. The costs, he supposed, were very heavy.

Mr. Duder : In round figures about ten guineas.

The Magistrate : There was a prosecution before me not very long ago and I dismissed the summons, and I was asked to state a case.

Mr. Riley : That was not these defendants.

Mr. Duder : It was a similar prosecution.

The Magistrate : I understand there are other people to be prosecuted. Had I better defer my decision as to the penalty? Have the other cases anything in common?

Mr. Rudd said he was defending in the other cases, and there was something in common. The same defendants were taking the responsibility in one of the other cases.

The Magistrate : In that case I think it would be very equitable if I reserved imposing the penalty until I have heard the other cases.

The other summonses on the list were against Fred Golding, 11 Victoria Street, Liverpool, and William Moore, 74 Mill Street, Liverpool, both charged with selling white pepper containing a percentage of pepper husks.

Mr. Rudd announced that in the case of Golding, White, Palmer & Co. were prepared to have their name substituted for that of the defendant, and they would plead guilty.

Mr. Duder said in this case the excess of black-pepper husks was 10 per cent.

In the case of Moore, the name of Stafford Allen &

Co., Ltd., was, on Mr. Rudd's application, substituted as defendants. They were, he said, the wholesale grinders. The alleged excess in this case was 8 per cent., and Mr. Rudd inquired if the Magistrate did not consider that was white pepper.

The Magistrate: You must plead guilty or not guilty. I have decided one case and given an expression of opinion.

Mr. Rudd: Then we will admit the offence and plead guilty. I would only point out that this system of grading has been a practice for many years, and there has been no complaint in regard to it until recently. I ask you to treat it more as a technicality than anything else. It is not like the cases of ten or fifteen years ago when husks were made into white pepper. There is no suggestion of fraud here.

The Magistrate: I think the proper fine in each case is 10*l*. In the first summons against White, Palmer & Co. the costs are ten guineas, and in the other two cases the costs are 17*s*. each.

CARBOLIC OIL AND OLIVE OIL.

At Peterborough Petty Sessions on June 10, before the Mayor of Peterborough (Sir R. Winfrey, M.P.) and other Justices, Charles Gibbons, chemist and druggist, was summoned for selling carbolic oil contaminated with 1 per cent. of extraneous water in mechanical suspension. He was further summoned for selling olive oil adulterated with 40 per cent. of arachis oil. The first hearing was on April 29, and was adjourned in order that the reserve sample might be sent to the Government Laboratory. (See *C. & D.*, May 2, p. 42.) As a result, Mr. Geo. Stubbs and Mr. A. More, the Government analysts, stated that:

"The result of the analysis correspond with those given by olive oil. We have further made an examination of the sample for arachis oil, and find no evidence of its presence. We are therefore of opinion that the sample in question is genuine olive oil."

Mr. W. T. Mellows, who prosecuted, intimated that as this analysis differed from that of the prosecution he withdrew the olive-oil summons.

Mr. C. H. Kirby (for the defendant) asked for costs.

Mr. Hill, who appeared for Corbyn, Stacey & Co., Ltd., who had supplied the oil, strongly commented upon the injustice which his clients had suffered through the publicity given in these proceedings to an entirely erroneous statement. His clients appeared that day to make good their statement that the olive oil was pure and free from arachis oil, a fact now confirmed by the Government chemists.

The Magistrates dismissed the summons, with five guineas costs to Mr. Gibbon and a guinea for the Government Laboratory analysis.

The carbolic-oil case was then taken.

Mr. W. Elborne, F.I.C., the public analyst, supported his certificate that the oil contained 1 per cent. of water, which, he added, showed that it had been improperly prepared. It was the first time, he said in cross-examination, that a complaint had been made about carbolic oil made with liquefied carbolic acid. The Mayor questioned witness as to the B.P.C. formula, in which phenol is ordered to be dissolved in the oil by heat, and witness replied that that formula is authoritative.

For the defence, Mr. Kirby submitted that the B.P. Codex is not binding on pharmacists generally. The Government analysis stated that the extraneous water contained in the sample was 0.9 per cent. It was absurd, he said, to bring such a case into court where there was less than 1 per cent. of such a harmless thing as water.

In evidence, the defendant said it had been his practice to make carbolic oil with dry crystals and also with liquid acid. Mr. Thomas J. Calcutt, pharmacist, of Peterborough, and Mr. William Johnston, Ph.C., gave evidence as to making carbolic oil with liquefied carbolic acid, and they had never had a complaint. Mr. Henry George Stacey, of Corbyn, Stacey & Co., also gave evidence.

After a short retirement, the Mayor announced that a majority of the Bench were in favour of dismissing the case, and the charge therefore failed.

# LIMITED COMPANIES.

## New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

CORNBROOK CHEMICAL CO., LTD. (P.C.).—Capital 15,000*l*., in 1*l*. shares. R.O., Millgate, Stockport.

TIMOTHY WAINWRIGHT & SONS, LTD. (P.C.).—Capital 2,000*l*., in 1*l*. shares. Takes power to carry on the business of chemists and druggists, as well as that of plumbers, etc. R.O., 257 Lord Street, Southport.

MALONEY SOAP CO., LTD. (P.C.).—Capital 10,000*l*., in 1*l*. shares. C. E. Maloney, Newbury House, Gillingham, Dorset, is first permanent director. R.O., Station Road, Gillingham, Dorset.

STOLZ ELECTROPHONE CO. (1914), LTD. (P.C.).—Capital 5,000*l*. The first directors are S. M. Hyman, A. Hyman, and J. Goldstein. R.O., 8 St. Martin's Place, Trafalgar Square, London, W.C.

J. S. EVANS & CO., LTD. (P.C.).—Registered in Dublin. Capital 1,000*l*., in 1*l*. shares. Objects: To carry on the business of apothecaries, chemists, etc. The first directors are J. S. Evans (4 Wilton Place, Dublin), A. Hendrick, and A. Meeke.

PROPRIETARY AGENCIES, LTD. (P.C.).—Capital 10,000*l*., in 1*l*. shares. Objects: To carry on the business of buying or selling agents, chemists, druggists, drysalters, etc. The first directors are T. H. Vernon, 80 Coleman Street, E.C., and W. D. Rowles.

HARRISONS, OPTICIANS, LTD. (P.C.).—Capital 3,000*l*., in 1*l*. shares. Objects: To take over the business of an optician carried on by A. J. Harrison at the Midland Arcade and North-Western Arcade, Birmingham. P. D. Harrison is the first managing director.

EXODUST FLOOR TREATMENT CO., LTD. (P.C.).—Capital 2,000*l*., in 1*l*. shares. Objects: To take over the businesses (1) of merchants and manufacturers of chemical products, carried on by O. M. Tweedy and D. Scott at Liverpool as the "Marshall, Lambert & Co. (Successors)," and (2) of a chemical merchant and manufacturer, carried on by S. Barnwell at Manchester as the "Special Products Association," and to carry on the business of chemists, druggists, dust-cleansers, etc. The first directors are O. M. Tweedy, N. C. Madan, S. Barnwell, and D. Scott.

## Company News.

BORAX CONSOLIDATED, LTD.—There will shortly be offered to the public a block of deferred ordinary shares of this company. The offer is being made by a syndicate, which has acquired the largest individual holding of deferred shares.

LEMCO.—The forty-ninth ordinary general meeting of Liebig's Extract of Meat Co., Ltd., was held at Cannon Street Hotel, London, E.C., on June 8. The Secretary having read the auditor's report, the Chairman, in moving the adoption of the report and accounts, said that during the past year the sales had been satisfactory. Oxo particularly had shown gratifying expansion. They were doing an increased business with hospitals, infirmaries, and public institutions. The report and accounts were adopted.

BOOTS CASH CHEMISTS (EASTERN), LTD.—The report of the directors states that the net profits for the year which ended on March 31 amounted to 25,533*l*., to which has to be added the balance brought forward, 13,530*l*., making an available total of 39,063*l*. A dividend on the ordinary shares of 12 per cent., free of income-tax, is recommended, also the dividend on the 6 per cent. preference shares, and 5 per cent. on second preference shares. It is further recommended that 2,000*l*. be added to freehold reserve, 751*l*. to contingency fund, 100*l*. to medical charities, and 1,000*l*. to management expenses, leaving 14,611*l*. to be carried forward.

PLANT PLANTOIDS, LTD.—In the Companies' (Winding-up) Court of the Chancery Division, London, on June 9, Mr. Justice Astbury heard the petition of the Standard Tablet and Pill Co., Ltd., Goldstone Chemical-works, Hove, Sussex, for an order for the compulsory winding-up of the Plant Plantoids, Ltd. Counsel said that the petition was a creditor's one, and the respondent company did not appear. Only one notice had been received, and that was from a creditor supporting the petition. His Lordship made a compulsory order. This company was registered in 1911 with a capital of 11,000*l*., of which 1,500*l*. was issued, and it is the vendor and promoter of (New) Plantoids, Ltd., which came out ten months ago. The parent company received from the new company altogether 17,500*l*. in cash and shares.

VIROL, LTD.—At the general meeting of Virol, Ltd., held on June 6, Mr. B. S. Straus (chairman) said it was satisfactory to note that in the three years which ended on March 31 both the turnover and profits of the company had more than doubled, and that business with hospitals and consumption sanatoria continued to expand. The gross profits amounted to 76,260*l.*, as against 61,955*l.* for the previous year. The directors recommended the payment of a dividend at the rate of 12½ per cent. for the past financial year, the placing of 10,000*l.* to reserve, bringing that account up to 22,500*l.*, and the carrying forward of 10,614*l.* The scheme for the establishment of the Virol research laboratories, which was approved last year, had been carried into effect. Premises were secured in Bedford Square, and equipped on the most up-to-date lines, with the result that the Virol laboratories are now among the finest in the Kingdom. They had secured as director of the laboratories the services of Dr. Edward Burnet, and he hoped that their research laboratories would prove a valuable adjunct to their business and at the same time play an important part in regard to public-health work. The report and accounts were unanimously adopted.

### Charges or Mortgages.

**Under the Companies (Consolidation) Act, 1908, Section 93, the mortgages or charges therein specified are (except in Scotland) void against the liquidator and any creditor of the company unless filed with the Registrar in accordance with the conditions laid down in the Act. Particulars of the following have been filed at Somerset House, London, W.C.**

*John Bell & Croydon, Ltd.*—Issue on May 5, 1914, of 500*l.* debentures, part of a series of which particulars have already been filed.

*Cardiff Alkali Co., Ltd.*—A memorandum of satisfaction in full on various dates of mortgages dated September 12, 1905, and February 26, 1909, securing 250*l.* in all, has been filed.

*County Home Supply, Ltd.*—Particulars of 700*l.* debentures, created May 12, the amount of the present issue being 500*l.* Property charged: The company's undertaking and property, present and future, including uncalled capital. No trustees.

*Cwmbrian Chemical Co., Ltd.*—A memorandum of satisfaction in full on various dates of debentures dated December 14, 1911, securing 6,000*l.* debentures, has been filed.

*Eschmann Bros. & Walsh, Ltd.*—Mortgage on the company's undertaking and assets, present and future, dated April 27, 1914, to secure 2*l.* per week to Mrs. F. A. Whitehouse, of 161 Leigh Road West, Leigh-on-Sea.

## DEED OF ARRANGEMENT.

**Sweeney, John Birchall,** 90 Albert Bridge Road and of 90 Newtownards Road, Belfast. Assignment on trust for the benefit of the creditors. Dated, May 30; filed, June 3. Secured or partly secured creditors' claims, 103*l.*; unsecured, 374*l.*; estimated net assets, 148*l.* Among the creditors are: James Nesbitt, Portadown (185*l.*); J. & J. Haslett, Belfast (132*l.*); Deans, Logan & Co., Belfast (14*l.*); S. Maw, Son & Sons (14*l.*); Lorimer Marshall, Ltd. (13*l.*).

## BUSINESS CHANGES.

**Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.**

MR. H. G. CROMPTON, chemist and druggist, has removed from 7 Fishergate to 56 Stanley Street, Preston.

MR. PETER LEECH, chemist and druggist, Helsby, Warrington, has removed into new premises opposite the London and North-Western Railway Station.

MR. T. GILBERT THOMAS, chemist and druggist, announces that he has opened an up-to-date pharmacy at 57 Commercial Street, Pontymister (Mon.). Teeth-extractions are a feature of the new business.

THE PROVINCIAL INCANDESCENT FITTINGS CO., LTD. (PIFCO, LTD.), have acquired a five-storey building at 71 High Street, Manchester, to which, after structural alterations, the business will be transferred on June 16.

## BIRTHS.

**Authenticated notices are inserted without charge.**

BENTLEY.—At 111 Soho, Old Handsworth, Birmingham, on June 3, the wife of Frederick Bentley, chemist and druggist, of a daughter.

SMITH.—At "Hazelcroft," Osborne Road, Weston-super-Mare, on June 2, the wife of T. N. W. Smith, chemist and druggist, of a son.

WORTHEY.—At 12 Chesnut Avenue, Crossgates, Leeds, on June 7, the wife of Alfred E. S. Worthey (representative of A. de St. Dalmas & Co.), of a daughter.

## MARRIAGES.

**Authenticated notices are inserted without charge.**

HILL—COOPER.—At St. Paul's Church, Southampton, by the Rev. P. H. Bown, M.A., on June 1, John H. Hill, Ph.C., Blackheath, Birmingham, to Mary Olivia, only daughter of Mr. and Mrs. G. Cooper, Rockstone Place, Southampton.

MCCURRACH—CHEYNE.—At Aberdeen, by the Rev. T. A. Fraser, on June 4, Robert McCurrach, chemist and druggist, to Elsie, second daughter of Mr. Alexander Cheyne, Aberdeen.

MCLEAN—FORRET.—At Edinburgh, by the Rev. Dr. Drummond, on June 3, Andrew McLean to Janet Alexander, only daughter of Mr. J. A. Forret, chemist and druggist, Edinburgh.

NAYLOR—BELL.—At Bethel Church, Brighouse, Yorks, by the Rev. Thomas M. Rees, Nottingham, on June 10, Frank Naylor, chemist and druggist (S. Maw, Son & Sons), to Annie Molena, youngest daughter of Dr. and Mrs. Bell, Brighouse.

REYNOLDS—SHARPE.—At Cliff Town Congregational Church, Southend-on-Sea, by the Rev. Albert D. Belden, B.A., on June 6, Leslie Ernest, youngest son of the late Mr. S. K. Reynolds, of Reynolds & Sellars, Colonial brokers, 9 Mincing Lane, London, E.C., to Muriel Florence, only daughter of Mr. Robert A. Sharpe, Westcliff-on-Sea.

WELLS—BOURNE.—At Maidstone Parish Church, by the Vicar, on June 1, Frederick George Wells, chemist and druggist, only son of Mr. W. G. Wells, chemist and druggist, Maidstone, to Violet Edith, youngest daughter of Mr. J. Bourne, Maidstone.

## DEATHS.

**Authenticated notices are inserted without charge.**

GREEN.—On June 3, Dr. Joseph Reynolds Green, F.R.S., Downing College, Cambridge, aged sixty-five. Dr. Reynolds Green was a native of Stowmarket, and took a first-class Natural Science Tripos, Part II. (in Botany and Physiology), at Trinity College, Cambridge, in 1884. He graduated M.A. in 1888, and Sc.D. in 1894. He was Senior Demonstrator of Physiology at Cambridge University from 1885 to 1887, when he was appointed from fourteen candidates Professor of Botany at the School of Pharmacy of the Pharmaceutical Society, in succession to Professor Bentley, holding the appointment until 1907.

DR. J. R. GREEN.

Dr. Green was elected a Fellow of Downing College in 1902, and the same year was appointed President of the Botanical Section of the British Association. He was also Hartley Lecturer in Vegetable Physiology at Liverpool University, and Lecturer and Librarian of Downing College. His "Manual of Botany," published in 1895, is well known to pharmaceutical students, while

Green's "Soluble Ferments and Fermentation" (1899) and "Introduction to Vegetable Physiology" were standard works in their day. A notable achievement by Dr. Green was the completion of Sachs's "History of Botany" in the volume published in 1910, covering the period from 1860 to 1900. Dr. Green, who was unmarried, had lived for many years with his sister, who died quite recently.

BOLTON.—At the Manor House, Castle Gate, Nottingham, on June 8, Mr. Charles Alfred Bolton, chemist and druggist, aged sixty-three. Mr. Bolton was apprenticed to Messrs. Bass & Wilford, Parliament Street, Nottingham, and after studying at Muter's passed the Minor in 1872. He set up in business in Goosegate, and later moved to the premises in Carlton Street, where he carried on business to the time of his death, having been in harness as recently as Wednesday, June 3. Mr. Bolton, though taking little active part in public life, had put in a good deal of work on behalf of the local Association, and had been Secretary and Vice-President. When the British Pharmaceutical Conference meetings were held in Nottingham Mr. Bolton was the energetic Local Secretary. He was a prominent Freemason, and had held many offices in the lodge to which he belonged. He leaves a widow and two daughters.

JORDAN.—At Pontardawe, near Swansea, last week, Ann, the wife of Mr. E. Jordan, chemist and druggist, aged sixty-five.

REFAUSSE.—At Drumcondra, on May 27, Mr. John Refausse, assistant to Messrs. J. J. Graham, State pharmacists, Westmoreland Street, Dublin. Mr. Refausse had been connected with the business for many years.

STEPHENSON.—On June 4, Mr. James Neat Stephenson, chemist and druggist, aged seventy-nine. Mr. Stephenson passed the Modified examination in 1869, and was for a long period in business at Haxey, Lincolnshire.

## TRADE-MARKS.

**The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1914, p. 237.**

**Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with Mr. W. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.**

*(From the "Trade-marks Journal," June 3, 1914.)*

Oval device of scales, with monogram "J. S."; for goods (1, 2, 39, and 50). By Johnson & Sons, Manufacturing Chemists, Ltd., 23 Cross Street, London, E.C. 357,968/9, 358,537, 357,970.

"CHLORANOL"; for photographic chemicals (1). By Union Photographique Industrielle Etablissements Lumière & Jougla Réunis, 21 Rue St. Victor, Lyons. 358,517.

"CINEMATOZONE"; for chemicals (2). By Chilvers, Johnson & Co., 542 High Road, Leytonstone, N.E. 359,741.

Device of moth, with word "GLOBOL"; for insect-destroyers (2). By the Globe Polish Co., Ltd., Stratford, London, E. 359,819.

"WATFORTH"; for sheep-dips (2). By W. T. Strong, 50 Fenchurch Street, London, E.C. 360,760.

"PANOSENE"; for medicinal chemicals (3). By Tokalon, Ltd., 212-214 Great Portland Street, London, W. 360,828.

"MAGNOPYRIN"; for medicinal chemicals (3). By A. Bishop, Ltd., 48 Spelman Street, London, N.E. 360,833.

Device, with words "LA HYÈNE, and picture of same; for perfumery, etc. (48). By Lecaron Fils, 6 Avenue de l'Opéra, Paris. 360,266.

"KANGAROO" and picture of same; for combs (50). By Schülmers & Co., 29 Vorsterstrasse, Crefeld, Germany. 358,102/294.

THE DAMASCUS ROSE.—A sample of *Rosa damascena* seeds, forwarded by the British Consul at Damascus, may be inspected at the Commercial Intelligence Branch of the Board of Trade, 73 Basinghall Street, London, E.C.; but we cannot endorse the statement in the "Board of Trade Journal" that it is from these seeds that "the well-known oil of rose is extracted."

## TRADE NOTES.

NATIONAL CASH-REGISTERS in use in chemists' shops are shown in the illustrations in the advertisement in this issue of the National Cash Register Co., Ltd., 225 Tottenham Court Road, London, W. The testimony of the chemists concerned is also given.

THE BUSINESS of the Frame Food Co., Southfields, London, S.W., together with the factory, plant, and machinery, has been purchased by Callard, Stewart & Watt, Ltd., food specialists. The Frame Food business is to be vigorously advertised by the new proprietors.

VALIDOL.—The travel season is now in progress. More people than ever take their holidays abroad, and as a good proportion of these dread the sea voyage owing to the fear of sea-sickness, it is not inopportune for chemists to make themselves acquainted with the uses of Validol as a prophylactic and cure of sea-sickness. Messrs. Widenmann, Broicher & Co., Ltd., 1 Fenchurch Avenue, London, E.C., are prepared to send Validol literature and a sample of the drug to any chemist who forwards a postcard request.

TRITONIQUE.—The unique manner in which Tritonique is advertised by the proprietors, Messrs. Steele & Marsh, 6 Milsom Street, Bath, is no doubt a factor in the continued progressing sales of this hair-tonic. The third anniversary of the discovery was on May 22, and much was made of the event in the local papers. To commemorate it the size of the bottles has been increased. It is claimed that there are now 40,000 users of Tritonique, and the agencies, which are offered on special terms to chemists, are likely to be profitable ventures.

ANZORA CREAM.—The increasing popularity of this hair-dressing preparation has secured for it the dignity of becoming one of those things that many men carry with them on their journeys or week-end visits. The Anzora Perfumery Co., 32 and 34 Willesden Lane, London, N.W., have therefore introduced a plain and strong leather case to hold a bottle of the cream. The case closes with flap, and is just the thing to put in one's suit-case. Chemists will make a profit and please many a customer by selling it. They can get further particulars by writing to the above address.

PARAFFINUM LIQUIDUM.—We have received from the Stern-Sonneborn Oil Co., Ltd., Royal London House, Finsbury Square, London, E.C., a range of six samples of liquid paraffin of specific gravities 0.885 to 0.890, 0.880 to 0.885, 0,870 to 0.875, 0.860 to 0.865, 0.865 to 0.870, and 0.875 to 0.880. All are water-white and free from odour and taste. The first corresponds to all the 1898 B.P. requirements, and the latter to its tests other than for specific gravity. Medical men are divided upon the subject as to whether thicker or thinner liquid paraffins are most efficient laxatives, but the company are prepared to meet these varying demands in medicinal qualities. It is interesting to recall that in the *C. & D.* for April 30, 1898 (p. 714), Messrs. Stern Bros., the company's predecessors, endorsed our criticism that the B.P. sp. gr. 0.885 to 0.890 was a mistake. The highest gravity then attainable was 0.882, but now methods have been devised for preparing 1898 B.P. qualities, although no doubt this year's Pharmacopœia will contain lower limits as regards specific gravity.

THE STORY OF PORT SUNLIGHT and its founder (Sir William H. Lever, Bart.) is succinctly told in the May issue of "Higham's Magazine." On a certain afternoon, nearly forty years ago, the young commercial traveller (as Sir William was then) found he had finished his round by 3.30 instead of 5 o'clock. He considered whether he should drive leisurely back to Bolton or go exploring for new business. The decision was to explore, and six calls were made in that spare hour and a half, which yielded three orders. Soon it was necessary to devote a day to the newly explored village, then Wigan was visited. As the customers in the latter place increased in numbers, it occurred to the young man that it was a waste of money to pay carriage from Liverpool to Bolton through Wigan, then back to Wigan again. Why not have a place in

Wigan? It was in 1884, with the Wigan business growing bigger than the original Bolton one, that the idea of going into soap came to the future Sir William Lever. A good name had to be chosen, and half-a-dozen likely ones were scribbled down on the proverbial half-sheet of notepaper by a well-known patent agent for the budding soapmaker, who carried the list round for days without thinking much of any of the names suggested. Suddenly the name "Sunlight" flashed upon him, and off he went to Liverpool, lest somebody should have registered the name before him. A soapworks was found at Warrington, and five months were then spent in perfecting the quality of "Sunlight." Then came the most astounding leaps in the sales of "Sunlight"; "Sunlight" was all its makers claimed, and orders came in so fast that deep iron bands had to be fitted to the pans in order to increase their capacity. It became an absolute necessity to move, and both banks of the Mersey were explored, and the present site at Port Sunlight decided on as soon as its founder saw it.

## PERSONALITIES.

**Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.**

Mr. J. S. Battle, Ph.C., has been re-elected a member of the Council of the Lincoln Chamber of Commerce.

Mr. E. J. Bishop, J.P., chemist and druggist, has been elected an alderman for Folkestone, of which he was Mayor in 1910-11.

Mr. Rex Blanchford, chemist and druggist, Wimbledon and Richmond, has been installed first Principal of the Richmond Royal Arch Chapter.

Mr. C. J. S. Thompson, curator of the Wellcome Historical Museum, has been elected a member of the Council of the Royal Medical Society's Historical Section.

Mr. Philip F. Rowsell, member of the Council of the Pharmaceutical Society of Great Britain, has been adopted as prospective Liberal candidate for the Bridgwater Division of Somerset.

Lieut. E. C. Bennison, Ph.C., F.C.S., Birmingham, R.A.M.C. (T.F.), 1st Southern General Hospital, was presented to the King at St. James's Palace Levee on Wednesday, June 10.

Mr. Thos. Sherlock, chemist and druggist, Redwood, Dentons Green Lane, St. Helens, has just celebrated his golden wedding. Mr. Sherlock was for many years in business in St. Helens.

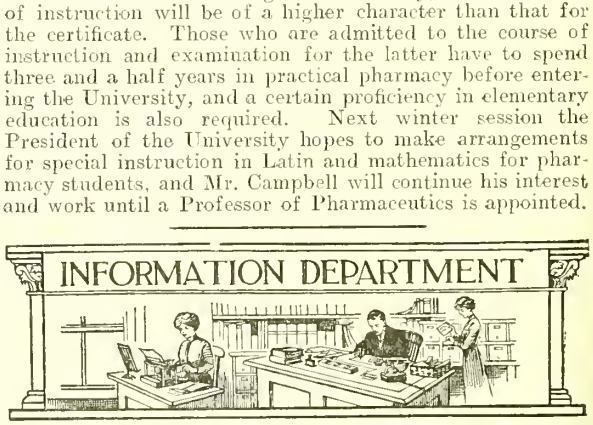
Mr. Richard T. Simpson, chemist and druggist, Lancaster, is to be one of the representatives of the United Kingdom in the international shooting-match against the United States and Canada, to be held, under the auspices of the Miniature Rifle Club Society, between June 15 and 20.

Mr. A. E. Richmond, chemist, 3 St. Peter's Road, Great Yarmouth, informs us that he has no connection with Richmonds Cash Chemists, Ltd., whose registration as a company was reported in the *C. & D.*, May 30, p. 47, and he is not the A. E. Richmond, the permanent director of that company.

Mrs. Horlick, whose first play, "An Indian Summer," was produced at the Prince of Wales Theatre on Thursday evening, June 11, is the wife of Mr. Ernest Horlick, the eldest son of Mr. James Horlick, one of the proprietors of the well-known and popular milk-products. Mr. Ernest Horlick is a manager of the business and one of the finest polo-players in England.

Mr. Sigismund Kutnow was one of the stewards at a great gathering of Masons and their friends, which filled the Guildhall and overflowed into the Mansion House on Wednesday evening, on the occasion of the 116th annual banquet in aid of the Royal Masonic Institute for Boys. The Lord Mayor presided, and the Bishop of Hereford, Sir Edward Clarke, and the Hon. Arthur Stanley were among the speakers. Subscriptions to the amount of more than 36,000*l.* were announced.

Mr. Alexander Campbell, Ph.C., Saskatoon, Sask., is visiting this country. He is a graduate of the Ontario College of Pharmacy, and until November last had been in business as a pharmacist at Saskatoon. While he is in England he is to make observations regarding the equipment of pharmaceutical laboratories for the Pharmaceutical Department of the University of Saskatchewan. This University has taken over the education of young pharmacists in Saskatchewan, and twenty-one students attended the first course and graduated this spring. Mr. Campbell took them in practical pharmacy, dispensing, materia medica, and prescription-reading, while botany and chemistry were taken in the university's ordinary classes. Those who passed the examination received a certificate of qualification, which is accepted by the Pharmaceutical Association of Saskatchewan in lieu of that Association's examination for registration in the Province. Besides the certificate course, the University is also arranging a course extending over three years for the degree of Bachelor of Pharmacy. For this students who have passed a certain period in practical pharmacy matriculate before entering the University, and the course of instruction will be of a higher character than that for the certificate. Those who are admitted to the course of instruction and examination for the latter have to spend three and a half years in practical pharmacy before entering the University, and a certain proficiency in elementary education is also required. Next winter session the President of the University hopes to make arrangements for special instruction in Latin and mathematics for pharmacy students, and Mr. Campbell will continue his interest and work until a Professor of Pharmaceutics is appointed.




Postal Address:
C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C.
Telegraphic Address: "CHEMICUS CANNON LONDON" (two words).
Telephone Number: BANK 852 (two lines).

### INFORMATION WANTED.

**Postal or telephone information as to the names and addresses of the agents for or makers of the undermentioned articles is solicited. Please address as above.**

248/4. Liebig's Pasteurised nerve-food.
248/45. "Mersano" non-alcoholic wine.
248/44. Morris's patent circulating filter.
243/1. Decorated ½-lb. health-salt tins (empty). supplied from stock.
250/50. Glass "Trinity" medicine-spoons: makers.
250/43. Abyssinian asthma-remedy.
246/38. "Enterenol," a remedy for dysentery.
250/45. "Luxor" hair-tonic.
250/430. Lambert's reducer.
250/50. "Walkeasy" corn-plasters.
249/9. "Mirror" nail-stones.
253/39. Soho bath-powder.
246/65. Address of Mr. Leo Cassel, druggists' sundriesman, formerly of Cloth Fair.
251/38. Row & Co.'s dental goods (gold strengtheners with star retaining tags).
251/31. "Nichotine," a greenish substance for staining statuary.
249/6. "Vestal" cream for cleaning white shoes.
249/20. "Drillantine" hair-brushes.
250/520. "Intestinoid Co.": address.
252/2. "Lanoeine" or "Lanosine": a disinfectant.
253/17. "Lindiguint" (a reducing-powder).
253/40. Makers of Lact-albumin.

### INFORMATION SUPPLIED.

**Inquiries in regard to the following articles have been answered. The information will be given to others who send a stamped and addressed envelope for it to the above address.**

Ambrine, 249/18
Anæzol, 249/17
Balmosa, 248/9
Bandage-cutting machines, 250/50
Bissulin, 249/180
Boxwood-top corks, 239/49
Copper sulphate (7-cwt. lots), 105/23
Crembas, 246/23
Dental supplies, 245/40
Egg-preservative, 250/24
Euformol, 246/33
Face-powder blocks, 251/40

# OBSERVATIONS AND REFLECTIONS.

By Xrayser II.

### The Annual Meetings

of several of the largest approved societies have been held during the last fortnight, and it is interesting to compare their views of the working of the Insurance Act as it affects them. These views are no doubt coloured by the fact that the membership of most of the societies has been enormously increased by the Act, but this fact itself is a tribute to the scheme. The increase includes a very large gain of independent members, these in one case bearing a ratio of 95 per cent. to those insured for State purposes only. It is, therefore, not strange that at all these meetings of which I have seen reports the general tone was optimistic. The case of the Hearts of Oak is typical of them all. The President declared that there is no need for alarm as to the future working of the Act; that, although in all probability the real pressure had not yet been felt, he did not share the pessimistic views expressed in some quarters; and that he believed the Act would prove not only a friend to their society, but a great benefit to the State. The Grand Master of the Druids spoke as strongly against a national medical service, and also in condemnation of the selfish action of the doctors.

### To be in Advance of One's Time

is good in a leader, but it is possible to be too much in advance, and this evidently is the case with Mr. Woolcock if he is, as he thinks, in advance at all. I confess that to me his scheme appears to savour of bureaucracy, which is as old as the Pharaohs, so that possibly he is rather in the rear than in front. Certainly the tendency of the day is towards local self-government in preference to centralisation, and the checking of accounts would seem to be a purely local matter, best done where all the circumstances are known. Clearly Lancashire is of this opinion, and I doubt whether the intervention of the Society will be very popular anywhere. We were told to manage our own affairs, and I fancy we are capable of doing so. What we want from the Society is not help in our business, but guidance in *la haute politique*. I hope this does not sound too ungracious!

### The Bitter Cry

of the Association Hon. Secretary in your last week's issue goes to my heart. I have never achieved or had thrust upon me such "greatness" as attaches to his position, but I have for many years tried to arouse the corporate sense in pharmacists, and to awake in them an interest in things other, and as I conceive higher, than immediate questions of *l. s. d.*, without any better success than has crowned his efforts. It is my consolation, though a poor one, that this insensibility to the higher aspects of things is not peculiar to chemists. The old saying, "It's money that makes the mare to go," was not originally spoken of tradesmen, and it is still of almost universal application. Many enterprises of great pith and moment with which I have been connected, though ostensibly undertaken from the most disinterested motives, and for a time carried on vigorously enough, have, like your correspondent's association, fizzled out in such futilities as whist-drives and lantern-lectures, simply because there was "no money in them."

### Another Side of the Matter

is the purpose for which Associations are formed. So far as pharmacy is concerned, the majority of the Associations now in existence are not the spontaneous growth of a natural evolution, but artificial organisations dependent for origin and life upon two or three enthusiasts, whom failing all failed. The more recently created Associations were designedly originated for Insurance business pure and simple, though they no doubt put in the shop-window some light-sounding phrases about scientific pharmacy and all the rest, therefore a large proportion of the members are interested in Insurance and in nothing else. So long as things go on smoothly "Hon. Secretary" will get all the work to do himself, and the less he worries about lantern-lectures and other such frillings, the better will the members be pleased. Need he wonder at the apathy of the children when they see the parent Society failing to rise to its responsibilities by its lack of encouragement to young talent? The example set in London is a real tragedy, and its influence on the country is exceedingly harmful. Were it not for Insurance, half the Associations would die of inanition: they could not live through one session if they depended for sustenance on the interest aroused by scientific or semi-scientific evening meetings.

### The Bradford Decision

in the Wincarnis-with-quinine case may possibly add yet another terror to the already heavily burdened life of the pharmacist. If there is one specially hoary tradition among us, surely it is that which says we are permitted to sell without a licence wine that has been rendered unpalatable by the addition of quinine or some other bitter, and if the judgment is not upset on appeal it will mean that other medicinal wines will be brought under the same ruling. This will be distinctly bad for pharmacy and for the community also, for there would unquestionably arise a demand which could not be resisted for off-licences in quarters where in the past such have never been dreamed of, and from men who would not touch an ordinary wine-licence with a long stick. If genuine medicated wines, as well as tipples, are to be banned, the mental attitude of not a few pharmacists would undergo a change, and it will be a bad day for society when the pharmacy becomes, as a matter of course, the place where wines and spirits can be ordered with face-powder and eau de cologne. Such an outlook would be by no means agreeable to thousands of pharmacists, even men who are themselves by no means strait-laced.

### Price-cutting in Switzerland

is somewhat of a revelation to me. We usually associate high prices with tourist resorts, and when we go abroad we do not expect to get our favourite patent medicines and tooth-pastes at lower prices than we pay at home. But the conditions in Geneva indicate that the age of fancy prices for medicine in Switzerland has gone for ever. No matter what steps be taken now, the mischief has been done, and pharmacy will never recover the lost ground. This is the universal experience, and the rough time that we in this country have had is just what will happen in Switzerland till a race of men arise, with a Glyn-Jones as leader, who, with a P.A.T.A. scheme, will at least preserve a living profit to the pharmacist. The reflection is a very sad one, but the inevitable has got to come, and the highly scientific Swiss pharmacist will become fewer and fewer till, as in this country, he practically disappears from the scene. The simple fact appears to be that there is not room in pharmacy for both the trading element and the purely professional, and where the two come to blows the profession gets the black eyes every time. All the same, the struggle in Switzerland is to be very interesting to the onlooker.

# SLUGS IN GARDENS

We are now offering to Chemists special Window Display terms for the Spring Trade in

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Chemists who desire to seize the opportunity of acquiring a trade in Gardening Specialties should write for details to

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# Editorial Articles.

## Dental Legislation.

WITHOUT advancing the subject at all the "British Medical Journal" last week discussed the problem of dental legislation. The starting-point is that, like the Medical Acts, the Dentists Act does not prohibit practice, but provides by the machinery of professional education, examination, and a register, a means by which the public may distinguish between different classes of practitioners. It was at one time thought that the Dentists Act went a little beyond the Medical Acts in protecting registered persons, and for a time decisions in a series of legal cases gave that impression. The triumph, however, was short-lived, as the House of Lords narrowed down the interpretation of the Dentists Act to that of the Medical Acts. When the Dentists Act was passed in 1878 admission to the register was granted to all those in practice, and notwithstanding the fact that two-thirds of those registered as in practice thirty-six years ago have died, the total number on the register remains practically the same as

in 1878. This means that the provision of registered persons has been inadequate for the increase in the population and the rapidly increasing demand by the public for dental work. Opinions differ as to the cause of the failure of the Dentists Act, but the view, generally speaking, is that the curriculum and examinations required of candidates for dental titles are too severe. Association with, or, more correctly, subservience to, the General Medical Council, has been a mistake. The "British Medical Journal" contends that those who have not received a grounding in the principles of medicine and surgery as required of aspiring dentists, are not in a position to judge of the value of this study—an attitude of superiority which medical journals are fond of assuming, but which does not deceive intelligent laymen. The various means that have been suggested of increasing the names on the dental register are discussed, including the suggestion to have two grades of dentists. The conclusion arrived at is that

"the position is exceedingly difficult, and calls for the most careful consideration not only by the registered dentists, but also by the several licensing bodies, the value of whose diplomas may be seriously affected."

Consideration by interested parties does not usually mean a broad view of the situation. Fortunately, the unregistered dental practitioners are becoming better organised, and the various Associations should be able to convince the authorities of the *bona fides* of their members. The question will probably come up for some definite answer in the near future, when additional benefits may be granted by Approved Societies under the National Insurance Act. Dental Benefit is the most important of these, but the shortage of registered dentists makes it certain that recognition will have to be made of the qualifications of unregistered practitioners of dentistry. The first indication of this was given in our note on dental panels a few weeks ago (*C. & D.*, May 23, p. 80). The conservation of the rights of dental chemists should be an object of those in the drug-trade, and we gather that the Society of Dental Chemists are paying special attention to this at the present time, and with this in view are making a special appeal for the support of all chemists who undertake dental work.

## Our Trade in Drugs.

### A Record Reached.

Why the name "Mr. Sydney Buxton" should still remain on the front of the monthly Board of Trade returns we do not know; he has vacated the presidency (Mr. John Burns having succeeded him), is now Sir Sydney Buxton, and is succeeding Lord Gladstone as Governor of South Africa. The returns for May, like those for April, show all-round increases, compared with the corresponding month last year, in imports and exports. Without going deeply into general details, we quote the principal figures :

Imports.

| — | May | | January-May | |
|---|---|---|---|---|
| | 1913 | 1914 | 1913 | 1914 |
| | £ | £ | £ | £ |
| Food, drink, and tobacco ... ... | 23,279,008 | 21,949,919 | 111,709,186 | 112,732,138 |
| Raw materials ... | 21,399,745 | 20,335,485 | 125,241,185 | 120,275,940 |
| Manufactured goods | 16,363,957 | 16,578,709 | 82,131,619 | 83,166,447 |
| Miscellaneous ... | 236,668 | 239,236 | 1,289,034 | 1,464,676 |
| Total ... ... | 61,279,378 | 59,103,349 | 320,453,024 | 317,639,201 |

Exports.

| — | May | | January-May | |
|---|---|---|---|---|
| | 1913 | 1914 | 1913 | 1914 |
| | £ | £ | £ | £ |
| Food, drink, and tobacco ... ... | 2,306,391 | 2,332,628 | 11,079,986 | 11,810,711 |
| Raw materials ... | 5,752,717 | 5,944,453 | 28,175,938 | 28,743,543 |
| Manufactured goods | 35,019,509 | 32,869,199 | 171,065,974 | 170,718,228 |
| Miscellaneous ... | 779,645 | 904,910 | 3,897,342 | 4,312,093 |
| | 43,858,262 | 42,051,190 | 214,219,240 | 215,584,635 |
| Re-exports ... | 9,370,315 | 10,371,519 | 50,514,460 | 50,522,982 |
| Total ... ... | 53,228,577 | 52,422,709 | 264,733,700 | 266,107,617 |

So far the year's export business is better than 1913, but the margin is just about equal to the falling-off in May exports of home produce, and if June is no better the increase may be wiped off. The chemical imports of the month were valued at 1,172,601*l.*, compared with 1,128,982*l.* in May 1913; and the exports were valued at 1,905,554*l.*, compared with 2,089,768*l.*—a drop of 184,214*l.*, due to glycerin as regards a half (38,552*l.* worth exported, compared with 132,587*l.* in May 1913), and the other half is almost made up by sulphate of ammonia. The medicines section of the chemicals is this month particularly notable, in so far as for the first time the five months' export business—January-May—reaches over a million pounds—viz., 1,032,613*l.*—an average of 200,000*l.* worth per month. This practically means that *the export drug-trade of the United Kingdom has nearly doubled in ten years!* In May 1904 the exports in this section were valued at 108,351*l.*, and there have been increases ever since, 134,676*l.* being reached in May 1908, 155,213*l.* in 1910, and 169,911*l.* in 1911. We give the figures for the last three years as they stand in the official returns :

Medicines, comprising Drugs and Medicinal Preparations.

| — | Month ended May 31 | | | Five months ended May 31 | | |
|---|---|---|---|---|---|---|
| | 1912 | 1913 | 1914 | 1912 | 1913 | 1914 |
| | £ | £ | £ | £ | £ | £ |
| Opium, dried and powdered in the U.K. ... | 128 | 232 | — | 38,194 | 7,869 | 7,744 |
| Quinine and quinine salts ... ... ... | 5,720 | 7,172 | 8,295 | 28,353 | 26,715 | 36,767 |
| Other sorts ... ... | 176,905 | 196,781 | 196,950 | 849,362 | 946,877 | 988,102 |
| Total ... ... | 182,753 | 204,185 | 205,245 | 915,909 | 981,461 | 1,032,613 |

It will be observed that there is no falling-off, and even in a month when the general export trade shows a decrease our export business in medicines has increased. We know of nothing in British trade so interesting as this, and it is entirely to the credit of the manufacturing and wholesale sections of the British drug-trade (including manufacturers of pharmaceutical chemicals) that their goods are sought for in all parts of the world. Quietly and without fuss they have built up upon merit an industry which is as peculiarly British as is cotton-spinning. The Chemist and Druggist has for many years, and especially since March 1886, when it became a weekly publication, done all that is possible, by subscription circulation abroad and publicity such as is not otherwise obtainable, to familiarise buyers in export markets with British manufacturers and merchants. This persistent and uninterrupted effort has been reflected in the steadily increasing exports officially reported in the Board of Trade Returns. In the last month (February 1886) before the *C. & D.*

became a weekly the medicines exported were valued at 59,898*l.*, which is *less than a third of the value of the medicines exported in May 1914.* This trebling of export business done deserves emphasis; some folks at home, and even kinsmen abroad, grumble at our pharmaceutical manufacturers and merchants losing grip; facts and figures prove the contrary, and, apart from these, we on The Chemist and Druggist have daily evidence of the high esteem in which British medicines are held abroad, for our correspondence comes from all parts of the earth, including all the new markets that have been given to the world through British pluck and enterprise. It shows that the correspondents come here as buyers.

### Fees for Proprietaries.

We published last week (*C. & D.*, p. 52) some notes issued by the Hull Pharmaceutical Committee, which included an instruction "obtain from the customer the charge for the proprietary." This is contrary to Paragraph 9 of the Third Schedule to the Medical Benefit Regulations, 1913, which is embodied in every contract between chemists and Insurance Committees:

"All drugs and appliances shall be supplied to the person presenting such order as aforesaid free of charge to that person."

The "aforesaid" refers to Paragraph 3 of the same schedule, which relates to "an order for drugs and appliances on a form provided by the Committee for the purpose, and signed by any practitioner on the panel, or his deputy. The Medical Benefit Regulations, 1912, were even more direct, Paragraph 6 of the Third Schedule reading: "All drugs and appliances shall be supplied free of charge to the person presenting such order." It is evident that the Hull instruction is ill-advised, apart from the fact that it vitiates a main principle of health insurance. But, apart from principle and sentiment, there is the binding clause in the contracts, which prevents panel chemists charging insured persons anything.

### Natron.

The natural soda (Greek *nitron*), a compound of sodium carbonate and sodium bicarbonate, with a mixture in varying proportions of sodium sulphate and common salt, found in Egypt, in the Wadi Natron and elsewhere, was formerly used as one of the chief agents of embalmment. It is a disputed point whether it was used in the solid state only, or was also employed in the form of a bath previous to burial. The latter theory, long held, has been questioned on two grounds: (1) That, being strongly alkaline, a bath of natron would have disintegrated instead of preserving the tissues, and (2) that some mummy tissues have a strong acid reaction and contain salt. Salt, therefore, is supposed by some writers to be what Herodotus and Diodorus meant when they stated that bodies were soaked for seventy days in a bath of natron. Mr. Alfred Lucas, F.I.C., F.C.S., however, in an article on the subject in the "Journal of Egyptian Archæology," contends with apparent success for the old interpretation. He has been experimenting with a view to ascertaining the action of solutions of natron and common salt respectively on the bodies of fowls, and finds that after five years those treated with natron are thoroughly preserved, while those treated with salt are much less so. He holds that the fatty acids present in mummified bodies would be sufficient to overcome the alkalinity of the natron and remain in excess, while the salt found in them is accounted for by that in the natron itself, which sometimes amounts to as much as 50 per cent. In some of our old writers nitre should, of course, be understood as natron, as in Caxton: "The body is puryfyed and washyd with Nitree, which is a spece of salte puryfycatyff." Other instances are given in Wootton's "Chronicles." This work by Mr. Lucas is of special interest in view of the fact that he is engaged in the Egyptian equivalent of our Government laboratories, and on more than one occasion reported on his work for the Contracts and Excise Departments.

## PHARMACEUTICAL SOCIETY OF IRELAND.

### Council-meeting.

The Council met at 67 Lower Mount Street, Dublin, on Wednesday, June 3, Mr. D. M. Watson (President) in the chair. The following were also present: Dr. Whitla, Messrs. Thos. Batt, G. D. Beggs (Hon. Treasurer), John Burnett, John Smith, and W. F. Wells.

The late Mrs. Michie.

The Chairman, in proposing a vote of sympathy with Mr. James Michie, said that since they last met Mr. Michie had had what was, he supposed, as severe a bereavement as a man could suffer—his wife had died; and it would be seemly that they should send him their sympathy on his bereavement. Such a motion scarcely required a seconder, so he would ask them to pass it in the usual manner.

The motion was passed in silence, the members rising in their places.

The Chester Conference.

The following were selected as delegates to the meeting of the British Pharmaceutical Conference, to be held at Chester on July 20-23: Mr. D. M. Watson (President of the Society), Mr. James Tate (Vice-President), Mr. G. D. Beggs (Hon. Treasurer), Sir Wm. J. Baxter, Mr. John Smith, Mr. W. F. Wells, and Mr. Isaac J. Nicholl (Belfast).

Nominations to Membership.

On the motion of Mr. W. F. Wells, seconded by Mr. G. D. Beggs, the following were nominated to membership:

Henry Conyngham, Ph.C., 40 Waterloo Road, Dublin.
James T. Dwyer, Ph.C., The Pembroke Pharmacy, Shelbourne Road, Ballsbridge, co. Dublin.
Samuel John Hudson, Ph.C., 355 Beersbridge Road, Bloomfield, Belfast.
Francis E. Preston, Ph.C., 4 Ogle Street, Armagh.
Sydney J. Richardson, Ph.C., Church Street, Dungannon, co. Tyrone.
James F. Seale, Ph.C., 24 Parnell Street, Clonmel.
Denis Slattery, Ph.C., The Medical Hall, Castlepollard, co. Westmeath.
Joseph A. Walsh, Ph.C., Grosvenor House, Wellington Place, Belfast.

Changes of Address.

Communications were submitted from the following, notifying changes in their addresses:

J. C. Boyle, Ph.C., to The Diamond, Donegal, co. Donegal.
J. T. O'Sullivan, Ph.C., to 105 Old George's Street, Cork.
Charles O'Neill, chemist and druggist, to c/o Mr. James Byrne, R.D., 27 and 28 Dublin Street, Clonmel.

Reports from Committees.

Reports from the Law Committee and the House Committee were considered and adopted.

## WILLS PROVEN.

Mr. John Freeman, chemist and druggist, 109 Icknield Road, Birmingham, who died on November 29, left estate of the gross value of 4,211*l.* 9*s.* 5*d.*, of which 1,788*l.* 3*s.* 2*d.* is net personalty. Probate of his will has been granted to his sons, Mr. William Marshall Freeman, B.L., and Mr. John Henry Freeman, both chemists and druggists.

Mr. Percy John Robbins, Ph.C., 64 Talbot Road, Kensington, London, W., who died on April 11, eldest son of the late Mr. John Robbins, formerly Treasurer of the Pharmaceutical Society, left estate of the gross value of 11,834*l.* 2*s.* 4*d.*, of which the net personalty has been sworn at 11,738*l.* 9*s.* 5*d.* Probate of his will has been granted to his brother, Mr. A. E. Robbins, and the Public Trustee. The testator left 400*l.* to J. R. D'Aulnay, Commissary of Police at Rennes; an annuity of 300*l.* to Caroline Grove for life, with remainder to his niece, Valerie Robbins; and, subject to several other bequests and provisions, the ultimate residue of his property to devolve as if he had died intestate on the decease of the survivor of the said Caroline Grove and Valerie Robbins.

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2.—MIDDLESEX (good-class Residential Locality). — Branch Business; returns under assistant £600, increasing; *net profit* £200; 7-roomed house, with private entrance and garden; rent £36; held on lease; price £350.

3.—LONDON, S.E.—Established Business; held by vendor 10 years; returns £1,460, increasing; *net profit between* £450 *and* £500; several good Proprietaries are included; double-fronted shop, corner position; price £750, less than the value of stock and fixtures; illness cause of sale.

4.—LONDON, W. (Good Residential Locality).—Retail and Dispensing Business; returns, present rate, £1,200, with excellent profits; attractive shop, well fitted and stocked; rent £36; held on lease; price £600, or valuation of stock and fixtures, with small premium for goodwill.

5.—LONDON, S.E. (high-class Suburb).—Retail and Dispensing Business, much neglected; returns £600: scope for considerable development under personal supervision; handsome shop and large residence; price £480, less than the value of stock and fixtures.

6.—HIGHGATE.—Established Business; held by vendor upwards of 25 years; returns average £850; corner shop; position unique; to effect a speedy transfer the sum of £400 will be accepted.

7—LONDON, W.—Ready-money Business, capable of extension under supervision of a principal; returns about £600 per annum; *gross profit* 50 *per cent.*; rent low; price £200.

8.—EAST COAST (Shipping Centre).—Good middle-class Retail and Dispensing Business; held by vendor upwards of 37 years, now retiring, owing to serious illness; returns last year £808; *net profit* £250; rent moderate; to effect an immediate transfer no reasonable offer will be refused; part payment if desired.

9.—YORKS (large Town). — Good-class Dispensing and Retail Business; held by vendor many years; returns between £1,300 and £1,350; well-appointed shop and residence; price £900, about the value of stock and fixtures.

10.—MANCHESTER (near). — Family Retail, Dispensing and Optical; excellent opening for Dentistry; returns average £20 per week; large shop, double-fronted; good stock; rent £30; terms, £70 and valuation, or £300 down and £200 by instalments.

11.—YORKS (Market Town).—Brisk Light Cash Retail, situate in working-class district; established upwards of 20 years; returns £860, which produce a *net profit of* £263; double-fronted shop, fitted in mahogany; price £360, less than value of stock and fixtures.

12.—WORCS.—Good middle-class Retail and Dispensing, with small Optical connection; returns average £1,600 per annum, at fair prices; excellent position, in best street; attractive shop, fully stocked; comfortable residence; terms, valuation of stock and fixtures and small premium for lease and goodwill.

13.—SUFFOLK (Death Vacancy).—Mixed Business; established 60 years; returns between £850 and £900 per annum; rent £35, or freehold may be purchased; good opening for extension; price £300.

14.—BANKS OF UPPER THAMES (Death Vacancy).—Modern Pharmacy; returns under management between £14 and £20 per week; position close to Railway Station; the shop offers a splendid nucleus to a young, energetic man with small capital at command; price £200.

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£700 returns.—LANCS.—Light Retail and Dispensing; inability to get suitable manager cause of sale; smart young man would find this a good investment; price £350.

£1,100 (nearly) returns. — LEICESTERSHIRE. — Good-class Family Retail in improving town; good house, garden, etc.; net profit borders on £300; goodwill £50; stock and fixtures at valuation, about £650.

£620 returns.—GLOUCESTERSHIRE.—Exceptionally profitable Light Retail in good position of health resort; business conducted on old lines; smart up-to-date man could double returns; price £450.

£765 returns.—NORTH-EAST COAST.—Good-class Suburban Retail; large roomy corner, with good residence; very few Patents; satisfactory reason for sale; net profit £210; price £450.

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3. SURREY (Favourite Locality). — High-class Business, in excellent position; formerly doing £1,400, now under manager; handsome shop, fully stocked; large house; low rental; price £850; personally inspected and strongly recommended.

4.—GLOUCS (Health Resort). — Light Retail and Dispensing Business; returns £640; net profit about £250; plenty of scope; good house; low rent; price £400; worth seeing.

5.—BEDFORDSHIRE. — Light Cash Retail, no N.H.I. work; returns about £750; net profit £200; books audited; good house and shop; low rent; price £335, or valuation.

6.—S. DEVON.—Light Family, Retail, and Dispensing Business in nice town; returns £525; net profit £200; low rent; good house and shop, main street; price £350, or valuation.

7.—LONDON (Kent Suburb).—Modern Cash Retail Business; for Sale solely through ill-health; fine unopposed position; returns over £1,450; net profit £450; handsome shop, fully stocked; price for quick sale £800, or near offer, bare valuation.

8.—LONDON, N.E. — Cash Retail and Prescribing; not on Panel; returns over £800; plenty of scope; net profit £250; busy main road; large shop, fully stocked; price £425, or offer

9.—YORKSHIRE.—Good-class Suburban Retail and Dispensing Business, in fine position; returns nearly £1,300; good profits; handsome Pharmacy, heavily stocked; price £900 cash.

10.—SOMERSET. — Profitable Retail, Dispensing, and Prescribing; returns £900 under poor management; was doing £1,500; good house and garden; low rent; large shop, fully stocked; price £500, or valuation.

11.—OXON.—Old-established Light Country Retail Business in fine position of good market town; returns £800, with scope for increase; double-fronted shop, well stocked; price valuation.

12.—NORTH-EAST COAST.—Sound ready money Retail; same hands 16 years, retiring; returns £1,100, increasing; net profit £470 (proof given); good position; fully stocked; price £800.

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BRADFORD.—Old-established Light Retail Drug Business for Disposal at once, main thoroughfare, near Town Hall; reason, age; good opening for Panel. Particulars from "S. H.," 113 Bridge Street, Bradford.

CITY OF LONDON (in the heart of).—Dispensing and Prescribing Business for Sale; handsomely fitted; long lease; returns £1,800; full profits. For other particulars apply, "H.," 34 Aubert Park, Highbury, N.

LONDON.—Old-established Light Retail and Dispensing; returns under manager nearly £1,300, and increasing; net profit £300; price £600; every investigation and consideration to quick purchaser; reasons of health requiring removal of present owner to sea coast. Apply "Probity" (130/7), Office of this Paper.

LONDON, N.—Increasing Branch for Disposal; returns 1912 £700, 1913 £900, 1914 £1,200, without N.H. Insurance; very profitable; handsomely fitted and modern double-fronted shop in best part busy main market; capable of great increase; rent £50 (worth £90); price for quick sale £675; trial allowed; part cash can remain. "Chemicus" (125/14), Office of this Paper.

LONDON, S.E. — Old-established Chemist's and Photographic Business, with Dental connection; long lease, £60, let off £18; returns £700; largely own Proprietaries; under unqualified management; good opening for N.H. Insurance; good house; well fitted and stocked shop. Apply, J. M. Munro & Co., 275 High Street, Lewisham, S.E.

LONDON, S.W.—Good-class Light Retail and Dispensing business; returns £1,550 at excellent prices; net profit £400; modern double-fronted shop, elegantly fitted and heavily stocked; good position; must soon do £2,000; price £1,200, or reasonable offer. Address, 129/250, Office of this Paper.

MANCHESTER.—Genuine old-established Chemist's and Druggist's Business; situate thickly populated middle-class district; prominent double-fronted corner shop, splendidly fitted; rent moderate; good living accommodation; price £200 everything; rare chance. Fuller particulars can be obtained from "H. H.," 4 Oxford Street, Old Trafford, Manchester.

MIDLAND City Suburb.—Profitable Prescribing and Dispensing Business; returns over £1,300; net profit £400; good scope increase, especially Optical and Photographic; Dentistry make splendid addition; healthy, pleasant, growing locality; lock-up, well fitted, electric light; Assistant; stock £550; price £800; stock could be reduced to meet purchaser; owner, owing to ill-health, anxious to dispose; rent £39; good lease. 125/18, Office of this Paper.

NORFOLK (Market Town).—Old-established Business, capable of great development; returns under feeble management over £800; scope for doing at least double; vendor, who has held it 40 years, will accept valuation of stock and fixtures, about £650; £200 could remain if required. Apply, "Norfolk" (129/205), Office of this Paper.

NORTH-EAST COAST.—For immediate Disposal, through serious illness, good-class Retail and Dispensing Business; present hands upwards of 37 years; returns over £800, with net profit £250; a great sacrifice, on easy terms, will be made to a prompt purchaser. Apply, 127/15, Office of this Paper.

NORTH OF ENGLAND.—Most desirable locality; good-class Family Retail and Agricultural Business; returns approach £3,000, with profits much above the average; fullest investigation offered; cash required about £2,400; valuation terms arranged; principals only dealt with. Address, 129/25, Office of this Paper.

OLDHAM.—For Disposal, a profitable Light Retail and Dispensing Business, well stocked; full Wine Licence attached; will sell at stock and valuation. Full particulars on application to 127/16, Office of this Paper.

OXFORD STREET, W. (two doors from).—First-class Business, in good main thoroughfare, doing increasing turnover; total weekly working expenses, without salaries, only £4; long lease; unique opportunity; well stocked and fitted; will accept low figure for prompt sale. Apply, 9 James Street (opposite Bond Street Tube Station), Oxford Street, W.

SMALL Business, good position, main road; low rent; good living accommodation, small garden; under management £6-£7, capable of increase; good reasons disposal; N.H.I.; modern window; Croydon district; £140 or offer. "P.," c/o British Drug Houses, Ltd., Graham Street, E.C.

SOUTH COAST.—Small Drug Store for Disposal; splendid opening for qualified man and for Insurance Dispensing; neatly fitted; about £100, or stock could be removed. "A. B. C." (126/17), Office of this Paper.

YORKSHIRE (Popular Health Resort).—Best-class Light Retail and Dispensing, with good scope for development in direction of Toilet Specialties, etc.; returns £1,300; very prominent position; favourable lease; valuation and goodwill. "Thyroid" (127/28), Office of this Paper.

A QUALIFIED Chemist entering the Medical profession is desirous of selling his high-class Chemist's Business; large modern and convenient house, with bathroom, garden, etc.; within 1 minute of station and 20 minutes of London Bridge; price required £380 for quick sale. Apply, 129/22, Office of this Paper.

BUSINESS for Disposal, owing to ill-health, in good market town in West of England; served by two lines of railways, and nearest town to some favourite Seaside Resorts; owing to ill-health the business has not been vigorously worked, but a good man would make a comfortable living; double-fronted shop; large, commodious house, with every convenience; immediate possession; price £200, or valuation of stock and fixtures; rent £45. Apply, "W." (127/40), Office of this Paper.

CHEMIST and General Stores; 5 miles from nearest opposition, 7 from Wrexham. Write, Box "W. 645," Lee & Nightingale, Liverpool.

DISPENSING and Retail, good-class neighbourhood, S.W.; returns over £400; rent £60, on lease; satisfactory reason for selling; price £380. "A. S." (126/31), Office of this Paper.

GENUINE good-class Branch, Retail, Prescribing, and Dispensing, N.H.I.; new shop and fittings, well stocked; over 4,000 population; no opposition; good opening for Dentistry and Optics; satisfactory reasons for disposal; pleasant town, 50 miles London, Kent; electric light; good Panel; good profits. Full particulars to genuine purchasers, 127/201, Office of this Paper.

MIXED Country Drug Business, combined with Manufacture of Aërated Waters; in hands of present owner 41 years; good house and garden, which could be bought with the business or rented at £30; prosperous fruit-growing and farming district; investigation and offers invited. J. Goodenough, Somersham, Hunts.

OLD-ESTABLISHED Dispensing Business; present hands 25 years; busy main street of pleasant suburb near Birmingham; lock-up shop, well stocked, and valuable fittings; returns about £600; ill-health cause of immediate disposal; N.I. Dispensing over £400; principals only; no agents. 127/25, Office of this Paper.

OLD-ESTABLISHED Business; best position in thriving market town; changed hands once in 45 years from father to son, through death; returns for last 12 months £1,776 under unqualified; rent £80; lease if required; exceptional opportunity for qualified man; big scope for immediate increase; price £1,200. Photo, Jeasop, Walsall.

OLD-ESTABLISHED Chemist and Druggist Business for Sale through death; under same management for past 20 years; good working-class neighbourhood. 126/32, Office of this Paper.

OLD-ESTABLISHED Drug and Dental Business for Sale; handsomely fitted; good house, garden, etc.; proprietor retiring; exceptional opportunity for purchasing a good going concern; house may be either rented or purchased by extended payments; no letters; personal inspection only invited, when particulars would be given. Apply in first place, 129/26, Office of this Paper.

OLD-ESTABLISHED Business, in busy market town, easy distance from London, thoroughly well stocked, with Mineral-water Factory in perfect working order; very profitable and capable of great extension by investment of small additional capital; price £250, or near offer, considerably less than valuation of stock, fittings, and machinery. 130/8, Office of this Paper.

PROPRIETOR of a very old Business, South Wales, central position, large town, compelled by illness to sell prosperous Business; returns over £2,000; good prices; rent £100, on lease; price, valuation stock and fixtures only; part purchase money can remain; or will treat with good business man as Working Partner. Friend, 1 Mountfield Road, Church End, Finchley, N.

SMALL Drug Stores, situated in centre of town, near harbour; rent £32; price £25 down and 10s. weekly till £75 is paid; no letters answered; anyone interested and with good references come and view any day. Lloyds' Drug Stores, 46 Northdown Road, Margate.

SMALL Cash Business, in a large and growing middle and working class district, near a Tram Depot employing 350 hands; family reasons for disposal; London; Western Suburb. Particulars to "Milne" (128/37), Office of this Paper.

£30; well-fitted Shop in East London; good opportunity N.H.I. Dispensing; now doing £4 weekly and about £2 N.H.I. Dispensing; has done 35 prescriptions a day; double-fronted shop and large roomy house with large yard and outhouse, outside lamps, etc.; instalments entertained. 130/14, Office of this Paper.

£100 cash, or valuation; no goodwill; Yorkshire; Retail and Prescribing; gross weekly profit £5; rent £35; busy, go-ahead industrial town; splendid house, every convenience; vendor must sell quickly, having purchased larger concern; rare opportunity for man with limited capital. "Urgent" (127/11), Office of this Paper.

£150.—Streatham.—Compact, well-fitted Shop, doing £10 average, and increasing, under unqualified management; comfortable seven-roomed house; stables in rear, let off £7 10s., leaving net rent £32 10s. and rates; big scope for N.H.I. Dispensing; no near opposition and no severe cutting. 130/22, Office of this Paper.

£200 will buy small Business in West of England; returns nearly £400, including N.H.I.; net profit £125; steadily increasing; rent £30; would sell property if desired. Apply, "Pharmacist" (122/5), Office of this Paper.

£300 buys snug little Business in market town of Highworth, Wilts; takings with unqualified £9 per week; scope for great increase; good opening for Photographic, Optics, and Dentistry; rent £36; long lease; unopposed. Ballard & Co., Faringdon, Berks.

£340.—To be Sold immediately, good-class Country Business in Sussex, turning over about £700 at good prices; moderate rent; splendid position, and capable of considerable increase; any investigation allowed; genuine opportunity for small capitalist. "Prompt" (123/40), Office of this Paper.

# FOR SALE.

FOR Sale in Exeter; sufficient for a shop; Dispensing Screen, with Sponge Case and Glazed Cupboards on Counter; 10-ft. Mahogany Counter, fitted Drawers, 5 Glazed Cases in front; 5-ft. Mahogany Bent-glass Counter-case; Mahogany-framed Mirror, 8 ft. by 3 ft.; about 130 Recess-labelled Shop-rounds, Poisons, and Syrups; Cut-glass Counter Jars. "Chemist" (127/2), Office of this Paper.

GOOD-CLASS Shopfittings of all kinds, Cases, Shop-rounds, Ointment Jars, Carboys, etc., for Sale, cheap. Martin, 58 Blackfriars Road, London, S.E.

HAVING let my premises on lease, I offer, at valuation, my excellent Mahogany Shopfittings, in good condition; inspection invited. J. F. Brown, Pharmaceutical Chemist, 1 Cannon Street, Dover.

NEW model National Cash Till for Sale; perfect; low for cash. Write, Pawson, c/o Battersby, 51 Daneville Road, Denmark Hill, S.E.

SALE of Stock and Fixtures.—Rebuilding of premises necessitates speedy Sale of Stock and Fixtures; stock in good condition, has just been taken, includes Optical goods and Sight-testing Records. Particulars Tomlinson, 45a Market Street, Manchester; or the vendor, Crook, Chemist, Southport.

SELLING OFF.—Sundries, new Flypapers, etc., cheap; Sulphur Tablets; 1d. Goodwin's Soaps, 5d. per dozen; list. 128/28, Office of this Paper

SHOP-ROUNDS.—Complete outfit of Chemist's Shop, consisting of 78 40-oz. wide and narrow mouthed bottles, 116 20-oz. W. and N.M., 36 10-oz. ditto, 30 4-lb. Blue Ointment Jars, and 24 4-oz. ditto, all with gold shield labels; also two 10-gallon Pear-shape Carboys, with cut stoppers and stands. What offers to Toone, Chemist, Bournemouth?

THE following practically new Plant is for immediate Sale, and can be seen fixed as lately working, viz.: Set Breaking Rolls by Fried Krupp; Chain Elevator by Fried Krupp, 38 ft. between centres, Steel Brackets 8 in. by 8 in., Steel Framing; four Steel Grading Sieves by Krupp; three Jig Washers by Krupp; four End-shake Washing Tables by Krupp; No. 4 Dragon Ball Mill by Johnson & Sons, Leeds; Quick Salt Desiccator by Passburg; Horizontal Belt-driven Vacuum Pump by Passburg, cylinder 8 in. by 10 in.; and other miscellaneous items. Joseph Pugsley, Cattybrook Ironworks, Lawrence Hill, Bristol.

# SALES BY AUCTION.

TO CHEMISTS AND DRUGGISTS.

MESSRS. FRYER, COOPER & CO. will include in their Sale on Wednesday, June 17, at their rooms, 3 Redcross Street, E.C., at 1, a quantity of Drugs, Patent Medicines, Foods, Medicinal Waters, Photographic Materials, Perfumes, Fancy Goods, etc. On view day prior and morning of sale, and Catalogues may be had of the Auctioneers, 3 Redcross Street, E.C.

# AGENCIES.

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AUSTRALASIA.—Good Agency wanted by advertiser, who has thorough knowledge of the market and is in a position to handle a good line. Please write, giving particulars, to H. A. Reeves, Ivanhoe Hotel, London, W.C.

LONDON Pharmacist, resident New York, and member of Wholesale Chemical firm, with 15 years' established connection amongst Physicians, Pharmacists, and Hospitals, is open to accept Agencies for Novelties in Medical and Pharmaceutical lines; agents in principal cities throughout U.S.A.; references exchanged. "Novelties" (122/8), Office of this Paper.

SPAIN.—Pharmacist desires Depot or Sole Agency for foreign Pharmaceutical Specialities, Alimentary Products, Perfumery, etc.; or would undertake manufacture and packing locally. Samples, catalogues, and correspondence in Spanish or French only to Mariano de la Vega, Botica del Carmen, Oviedo.

AGENTS wanted sell (commission) good line; territories arranged, Wales, London, Midland, and South of England. 123/1, Office of this Paper.

AN English house, with office and warehouse in Paris, having an influential connection amongst the large Departmental Stores (Louvre, Bon Marché, etc.), Chemists, and Oilmen, is open to accept a Selling Agency upon favourable terms; part expenses paid, commission. Apply in first instance to "X. Y. Z." (247/35), Office of this Paper.

MR. A. PELL, F.C.S., of Bombay, is prepared to accept Agencies for Specialities and other articles for introduction and sale in India; his present address is c/o Messrs. H. B. Sleeman & Co., Ltd., 84 Leadenhall Street, E.C., where interviews can be arranged (32 years' experience of Indian requirements).

# TO LET.

KENT.—Chemist's Shop to Let; been a Chemist's three or four years; good opening; N.H.I., Photography, Optics, Teeth, and usual Chemistry; rent £24; fixtures nominal; population about 3,000; nearest Chemist 5 miles. W. Frayling, Cliffe, Kent.

SOUTHSEA, King's Road.—Well-appointed corner Shop in centre of shopping district, to Let on lease; rent £80; shop front could be altered if desired to suit tenant's requirements. Apply, Messrs. Tippetts, Solicitors, 248 Earl's Court Road, London, S.W.

# PUPILS.

PHARMACEUTICAL pupilage, three years, in lieu of apprenticeship; "Bell" Scholarship in view; salary quite secondary; passed Prelim. (except Latin); age 18; no premium; London only. "G.," 131 Munster Road, Fulham, S.W.

# BUSINESSES WANTED.

BUSINESS wanted, good-class Retail and Dispensing, returning £1,000 to £1,200, with ample scope for increase; comfortable residence, with modern conveniences. Please give full particulars in first instance (strictly confidential), "Pharmacist" (127/27), Office of this Paper.

# PARTNERSHIPS.

QUALIFIED Partner, with capital about £500; splendid opening for gentleman possessing energy and enterprise; Retail and Mail Order; one with knowledge Optics and Dentistry preferred. 127/210, Office of this Paper.

# SITUATIONS OPEN.

**3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.**

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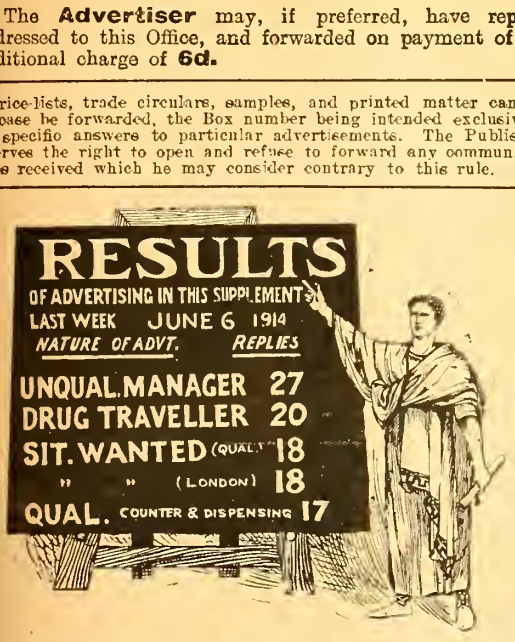


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## RETAIL.

ABERDEEN. — Qualified Assistant required; young man with good Counter experience. State age, height, when disengaged, ive full particulars of experience, Hunter, Pharmacist, 111 Union treet.

BEXHILL-ON-SEA.—Wanted in a first-class Pharmacy on the South Coast, a good Assistant; must be a quick and accurate ispenser with Counter experience. Apply to F. Wimshurst, Pharaceutical Chemist, Bexhill-on-Sea.

BEXHILL-ON-SEA.—Junior wanted for season or permanency in good-class business; knowledge of Photography. Enclose oto, Scholefield, 37 St. Leonard's Road.

BIRMINGHAM.—Part-time Assistant required; evenings; permanent; Mixed business; must be able to Dispense. Brook" (127/42), Office of this Paper.

BRISTOL.—Qualified Manager for Branch in Bristol; also qualified Assistant for relief during holidays; also unqualified sistant for Counter; permanent berths for reliable men; no uday duty; one afternoon weekly. State age, height, salary uired, and quote references, to Managing Director, Henry dder & Co., Ltd., 5 Nelson Street, Bristol.

EAST COAST (10 miles from Cromer).—Unqualified gentlemanly Assistant required for permanency in Mixed Country business; hours; very healthy neighbourhood; suit one needing time study or in indifferent health. Apply, giving full particulars, ary required (outdoors), Craske, Chemist, Holt, Norfolk.

EASTBOURNE.—Qualified Assistant required for Dispensing Counter for about two months, while Assistants take holidays; t be well recommended. Apply, with usual particulars and ing when disengaged, to Price, Chemist, Eastbourne.

EASTBOURNE.—Wanted immediately, unqualified Assistant; reliable; knowledge Photography preferred; lady or gentle- . Stovin, Chemist and Optician.

EAST HAM.—Wanted, beginning of August, qualified Assistant, Extractor preferred, but not essential. State age and salary ired (outdoors). Apply, Wardale & Co., 132 High Street, Nth.

HAMPSHIRE INSURANCE COMMITTEE.

THE above Committee invite applications for an Officer (whole time) to undertake the work of checking Prescriptions and matters incidental thereto as may be required by the Committee. Applicants should apply in their own handwriting, stating age, experience, present occupation, qualifications, and salary required, and forward two recent testimonials.

All applications should be endorsed "Prescription Checking," and must be forwarded, addressed to the Clerk of the Committee, Westgate, Winchester, not later than June 18th.

EASTERN COUNTIES.—Wanted, an unqualified Assistant for a good-class Mixed Country business; an accurate and reliable worker; no Insurance Dispensing; short hours; no Sunday, night, or holiday duty; comfortable berth; outdoors. Apply, with usual particulars, age, experience, when disengaged, and salary required, to 127/33, Office of this Paper.

FELIXSTOWE.—Assistant wanted for August and September. Please give full particulars, also age and salary required (in- or out-doors), Brice, Chemist, Felixstowe.

FELIXSTOWE. — Immediately, for season, June-October, competent Assistant for Dispensing and Counter in high-class business; Photographic experience desirable; outdoors; three kept. Usual particulars to H. F. Douthwaite, Pharmaceutical Chemist, Felixstowe.

GREENWICH, S.E.—Smart all-round Assistant, qualified, for quick business; Counter and Dispensing; good and progressive salary to experienced man; outdoors; one whole day and half-day off fortnightly; also a Junior Assistant. Apply, giving full particulars as to experience, salary required, etc., to Milner, 209 Trafalgar Road, Greenwich.

ILKLEY.—Wanted at once, smart Assistant; outdoors. Apply, stating age, experience, salary required, etc., photo if possible, to A. Duckworth, Pharmaceutical Chemist, Ilkley.

IPSWICH.—Unqualified Assistant required at once; rooms provided; a good Window-dresser and knowledge of Photography essential. State salary and usual particulars to Harold Chard, 26 Westgate Street.

LEEDS.—Wanted, Branch Manager; qualified; good house; permanency for good man. References, all particulars, and photo if possible to Armitage, Pharmacist, Tong Road, Armley, Leeds.

LEYTON.—Experienced Assistant wanted at once in Retail and Dispensing, with N.H.I.; unqualified; age 21-25; good recent references essential; the situation is a comfortable one and outdoors; Sunday duty nominal. Apply, with particulars and salary required, to Leighton, 565 Lea Bridge Road, Leyton.

LIVERPOOL.—Assistant wanted; unqualified; outdoors; not over 30 years of age; must have had good experience; no Panel work. Full particulars to R. & J. Herman, Pharmacists, Aintree, Liverpool.

LIVERPOOL district firm has opening in important Branch for qualified man of undoubted business capacity and experience, who is able to control small staff, conduct Counter business on modern lines, and carry out or give instruction in up-to-date Window-dressing and Advertising; arrangements would be made to free several hours in afternoon daily from usual long day; position would be under agreement for a period, with progressive salary and fixed commission; three recent testimonials would be taken up before further negotiation, and fullest particulars of trade and business record only will be considered. 126/35, Office of this Paper.

LONDON, E.—Unqualified Assistant required for modern Cash business; Counter and Dispensing experience essential; permanency. State age and when at liberty and salary required, 127/41, Office of this Paper.

LONDON, N.—An experienced Assistant; also a Junior; two assistants kept. Apply (letter only), stating experience, names of references, when disengaged, and salary required (indoors), "Chemist," 300 Amhurst Road, Stoke Newington, N.

LONDON, N.—Qualified Assistant, capable of taking full charge; Scotsman preferred. Apply, stating age, height, experience, and salary required (outdoors), to 129/23, Office of this Paper.

LONDON, N.—Qualified Manager; good opportunity for one seeking a permanency. Apply, stating age, experience, height, and salary required (outdoors), to Dow, Chemist, 433 Green Lanes, Harringay, N.

LONDON, N.—Wanted immediately, qualified Assistant to Manage small Branch; quick Retail, Dispensing and Prescribing; outdoors; comfortable berth to competent, reliable man; good salary and commission; personal interview preferred. Armstrong, 343 Upper Street, Islington.

LONDON, N.W.—Qualified Assistant; high-class Dispensing and Photographic business. State age, height, salary, when disengaged, with references, 123/3, Office of this Paper.

LONDON, N.W.—Unqualified experienced Assistant required, about 23 years of age. Apply, giving usual particulars and salary required (outdoors), to W. H. Bell & Co., 96 Albany Street, Regent's Park, N.W.

LONDON, S.E.—An easy, comfortable berth offered to a qualified man; one desiring permanency preferred; suit elderly person; pleasant neighbourhood; easy hours. Apply, Foster's Drug Stores, Ltd., 8 Selhurst Road, South Norwood.

LONDON, S.W.—C. Lowe & Co., Surbiton, require competent Assistant, accustomed to good-class business, chiefly for Dispensing. Please state usual particulars and salary required.

LONDON, S.W.—Gentlemanly unqualified Assistant for evenings, 6 to 9.30, Saturday 10.30; about 24-26 years of age; Store Dispensing; commence July 15. Full experience and qualifications, salary and photo, Percy T. Harris, 183b King's Road, Chelsea, S.W.

LONDON, S.W.—Outdoor Assistant (Junior), about 22; accustomed to Dispensing and good-class Retail. Photo and particulars, or call, Banbury, 186 Lavender Hill, S.W.

LONDON, S.W.—Wanted at once, a competent Assistant (outdoors), with good Dispensing experience, qualification not essential; liberal salary to a reliable man. Apply, A. T. Gray, 5 High Street, Barnes.

LONDON, S.W.—Capable Assistant; good Counterman and Dispenser; unqualified; previous West-End experience an asset; good appearance and address. H. Pickett, 29 King's Road, Sloane Square, S.W.

LONDON, S.W.—Good Assistant required; qualified preferred; good Dispensing experience essential. E. W. Hill, 240 Earl's Court Road, S.W.

LONDON, S.W.—Good Assistant, where four are kept, for Counter work and able to take charge; good opening for capable man. Durbin, 131 High Street, Putney.

LONDON, W.—Wanted at once, qualified Assistant (outdoors) for Dispensing Counter. Apply, stating age, height, salary required, with full details of previous experience, W. Martindale, 10 New Cavendish Street, W.

LONDON, W.—Qualified Assistant for Dispensing Counter; outdoors. Apply, stating age, height, salary required, with full details of previous experience, to Roberts & Co., 76 New Bond Street, W.

LONDON, W.—Unqualified Assistant for good-class Dispensing business. Apply, R. S. Dampney, 87 Abingdon Road, Kensington.

LONDON, W.—Wanted, a qualified Assistant, with good Dispensing experience. Apply, stating age, experience, and giving references, to Squire & Sons, Ltd., 413 Oxford Street, W.

LONDON, W.—Smart unqualified Assistant wanted immediately; outdoors. Apply, personally or by letter, Spink & Co., 27 Tottenham Court Road, W.

LONDON, West End (Wholesale and Retail).—Wanted immediately, competent Junior Assistant; must be quick, accurate, and clean Dispenser, and able to deal with varied Wholesale orders; short hours. Apply, personally preferred, to Manager, Drug Department, Hospitals and General Contracts Co., Ltd., 25-35 Mortimer Street, W.

LONDON Suburb.—Qualified Branch Manager for first-class Retail, Dispensing, and Photographic; outdoors; good prospect and permanency for a capable, reliable, and energetic man. Give full particulars, including age, height, experience, salary, references, photo, to 129/37, Office of this Paper.

MANCHESTER.—Junior for good-class Retail and Dispensing business. Apply, with full particulars of experience, age, and salary required, to J. S. Breese, Pharmaceutical Chemist, Rusholme, Manchester.

MANCHESTER CHILDREN'S HOSPITAL, Pendlebury.—Out-patients' Department, Gartside Street, Manchester.—Qualified Assistant Dispenser required; commencing salary £75 to £85, according to qualifications and experience; forms of application may be obtained from the undersigned, and must be returned on or before July 4, 1914. By order of the Committee. Hy. J. Eason, Secretary.

MANCHESTER District.—Young qualified Assistant wanted; salary £3 per week and commission; must be quick and reliable and a good Salesman. State age, height, experience, references, and photo, 253/29, Office of this Paper.

MANCHESTER District.—Assistant wanted; permanency if suitable; must be capable Dispenser and good Window-dresser. State salary required, 126/28, Office of this Paper.

MIDLANDS.—Elderly qualified Chemist required for comfortable berth; hours not excessive; work congenial. State age, salary required, and when at liberty, 127/45, Office of this Paper.

NEWQUAY, Cornwall.—Wanted at once, an Assistant, until about the end of October. Apply, giving all particulars, to Alfred Bond, The Pharmacy, Newquay, Cornwall.

PICCADILLY.—Wanted, smart Junior; must be well recommended, reliable, and of good address; whole day off weekly. Apply, stating salary required, to "O. S." (130/9), Office of this Paper.

RHYL.—Unqualified Assistant required for high-class business; must be quick and of good appearance; outdoors; permanency; hours light. State age, experience, and salary required, photo if possible, to Ashfield, Pharmacist, Rhyl.

ROCHDALE.—Qualified Manager required. State salary and usual particulars, "A. E. H.," 199 Yorkshire Street, Rochdale.

ROYAL SOUTH HANTS AND SOUTHAMPTON HOSPITAL.—Required, a Dispenser (male); candidates must be registered, hold certificates from a recognised School of Pharmacy of the United Kingdom, and be willing to engage for twelve months salary £100 per annum, with rooms, board, and washing; or £130 non-resident; applications, stating age, with printed copies of testimonials (limited to five), to be sent to the undersigned at once; duties to be taken up on July 1st. T. A. Fisher Hall Secretary.

SOUTH Coast.—Registered man wanted; light berth; suit elderly man or invalid requiring time for recreation. "A. B. C." (126/170), Office of this Paper.

SWINDON.—Unqualified Junior; smart N.H.I. and Doctor' Dispenser; knowledge of Window-dressing an advantage; goo hours; light duties. Williams & Co., Ltd., 44 Bridge Street Swindon.

TORQUAY (outdoors).—Qualified Assistant, competent to manag Branch, Light Retail and Dispensing. Apply, stating ag height, experience, and salary required, enclosing photo, Frederic March, 90 Belgrave Road, Torquay.

WINCHESTER.—Wanted, a smart, active Junior. Apply giving full particulars of age, height, salary, and exper ence, to Hunt & Co., 45 High Street.

WINDERMERE.—Wanted for the summer months, an Assistan for good-class Retail and Dispensing business; good Sale man, and one with knowledge of Photography preferred. Apply giving full particulars as to age, experience, salary (outdoors etc., to R. H. Barker & Co., Chemists, Windermere.

YORKS (West Riding).—Wanted, qualified Assistant; must b energetic and accurate Dispenser; good salary, with prospect State particulars (single preferred), Audsley, Horbury, near Wak field.

YORKSHIRE and Lancashire.—Qualified Locum required to tak charge of businesses during holidays of managers; perma ency afterwards if Locum work satisfactory. 127/43, Office this Paper.

A COMPETENT qualified Assistant wanted; married or singl permanency to a good man and can live over the busines State full particulars to 127/24, Office of this Paper.

ACTIVE, smart Assistant wanted for the Drug and Proprieta Department; good Window-dresser. Enclose photo, state ag height, experience, and wages (outdoors), Lankester & Crook, Lt Woolston, Southampton.

AN Assistant wanted (outdoors), age about 25, having expe ence in first-class Retail and Dispensing. Apply to W. Pasmore, 320 Regent Street, London, W.

ASSISTANT; permanency; outdoors; good Counterman and finish at Dispensing Counter. Apply, stating full particul and salary required, to L. Cameron, Pharmaceutical Chemi Seaford, Sussex.

ASSISTANT, accustomed to first-class business. Please st salary required, references, etc., and if possible enclose pho Balkwill & Co., 106 Old Town Street, Plymouth.

ASSISTANT (outdoors), well up in Dispensing. Apply, w particulars of experience, state age, height, salary requir to C. A. Maries, Pharmacist, Waterloo, Liverpool.

ASSISTANT wanted; qualified or unqualified; Dispensing perience necessary; whole day off weekly. Apply, stating a experience, references, salary required (outdoors), and when engaged, to Bishop & Vincent, 460 Holloway Road, London, N

ASSISTANT wanted first week in July; age 26-36; outdoo unqualified; one seeking a permanency; easy hours; referen required and photo if possible. Bellamy, Pharmaceutical Chem Chelmsford.

ASSISTANT wanted; outdoors; one used to Insurance Dispensing. Apply, with the usual particulars and photo, to C. Thompson, 159 Stratford Road, Sparkbrook, Birmingham.

ASSISTANT (21-24), unqualified, indoors or outdoors, for first-class business; good Dispenser and knowledge of Photography. Please state experience, age, height, and salary required to C. H. Dixon, Chemist, Westgate-on-Sea.

ASSISTANT, qualified, for good-class Dispensing and Family trade; must be a neat and careful Dispenser and have a knowledge of Photography; indoors; duty divided between three. State age, height, salary, photo, experience, and reference to "F." (128/8), Office of this Paper.

ASSISTANT: well up in Dispensing; either qualified or not. State which, salary required, when disengaged, names two last employers, 127/70. Office of this Paper.

ASSISTANT, studying for exam.: half-day's work, half-day's study at seaside till about middle of September. 127/7, Office of this Paper.

AT once, smart Junior qualified Assistant; accustomed to quick trade; abstainer preferred. Apply, Walker, 78 East Road, London, N.

AT once, a capable Counterman; unqualified. Maurice Jones, 298 Harrow Road, Paddington, W.

BRADLEY & BOURDAS, 6 Pont Street, S.W., require a qualified Assistant, chiefly for Dispensing (outdoors), about 23. Particulars to Mr. Bourdas.

CHAS. RUNDLE will have a vacancy in July for an Assistant, with Minor qualification, about 22 years old; salary (outdoors) to commence £120 per annum; comfortable apartments, with good cooking, at 16s. per week, found if desired. Apply, by letter, Rundle, Pharmacist, 220 High Street, Walthamstow, N.E.

CHEMIST'S Assistant (competent), with high-class Dispensing experience, required for four months. Apply, with full particulars, T. Welwood Maxwell, Ph.C., Strathpeffer.

COMPETENT Assistant for the season. Apply, giving age, salary required, and previous experience, to Mercer, Pharmaceutical Chemist, Llandudno.

COMPETENT Junior wanted at once in good-class business; duties principally Dispensing and Stock; moderate hours; light duty; good salary; outdoors. Hickman & Metcalf, Chemists, Newbury.

DISPENSER and Bookkeeper by a Doctor, small town in Gloucestershire, either male or female; previous experience in a Surgery and as permanency preferred; easy hours. Apply, by letter, H. Jenkins, 137 Willesden Lane, London, N.W.

DISPENSER wanted (lady), three hours daily; Apothecaries' Hall certificate. Apply, Matron, Hospital S.S. John and Elizabeth, 40 Grove End Road, N.W.

DISPENSER wanted with Minor qualification; hours 9 a.m. to 10 p.m., Sundays 6.30 p.m. to 9.30 p.m.; salary £2 10s. per week (outdoors); usual time off allowed for meals, etc. Eldon, 430 Mile End Road, London, E.

DISPENSERS.—A number of Women Dispensers are required temporarily in connection with the pricing and examination of Chemists' Prescriptions. Applications, on foolscap paper, in the applicants' own handwriting, should state qualifications, experience, and age, and be accompanied by copies of not more than three testimonials, and forwarded addressed, 129/33, Office of this Paper.

ELDERLY registered Chemist required; duties light; knowledge of Optics preferred, but not essential; suit retired Chemist. 127/21, Office of this Paper.

GOOD-CLASS Retail, Dispensing, and Photographic to one well recommended; good salary offered; qualified or unqualified. Baynes, Chemist, Margate.

IMMEDIATELY.—Qualified Manager for neglected Branch; indoors; single; comfortable home; very pleasant suburb; Light Retail and Dispensing; good salary to capable man. Send all particulars and photo (to be returned) to F. H. Blissett, 10 Victoria Street, Clifton, Bristol.

IMPROVER or Junior (outdoors) for quick Cash trade; state age, experience, and salary required; half-holiday weekly; no Sunday duty. Apply, with references, to J. & J. Thompson & Co., Ltd., Cash Chemists, Oldham.

IMPROVER or Junior required; indoors; time for study and recreation. State salary, Davies Bros., Chemists, Gorseinon.

JOHN BARKER & CO., LTD., Kensington, W., require immediately a qualified Dispenser. Apply, R. E. Baron

JUNIOR immediately for Dispensing, General Retail, and Photography. State age and salary required, Neve & Co., Silverhill, St. Leonards.

JUNIOR or Improver required as soon as possible in good-class Retail and Dispensing business; hours 8 to 8, one evening at 7; half-holiday; outdoors; a little Sunday duty alternate weeks. Send photo if possible and full particulars to Derbyshire, Ph.C., Malvern Link, Worcester.

JUNIOR Assistant (outdoors) for good-class Retail, Dispensing, and Photographic; good opportunity. State age, height, experience, when disengaged, and salary expected to Matthews, Chemists, 146 Hoppers Road, Winchmore Hill, N.

JUNIOR Assistant wanted for good-class Dispensing and Retail business. Allen & Lloyd, Aldershot.

JUNIOR or Improver required about June 22; outdoors. Please give usual particulars. Gaze & Co., Pharmacists, 10 Tho Avenue, Highams Park, N.E.

JUNIOR or Improver for good-class and Mixed Country business; outdoors. Apply, Horrocks, Chemist, Knutsford.

KEMSEY-BOURNE, Chemist, West Bromwich, requires at once smart Junior, 18-21; Salesman and Window-dresser; knowledge of Photographics necessary; assistance given in study for Minor; no Sunday or Holiday duty. State experience and salary required (outdoors).

LADY (qualified) required for Children's Hospital from July 22 to August 17 inclusive; salary 30s. weekly (indoors); fare paid one way. Apply, with copies of testimonials, to Miss Alexander, Pharmacist, Victoria Hospital for Sick Children, Park Street, Hull.

LEWIS & BURROWS have a vacancy for a first-class unregistered Assistant. Apply, with full particulars, to 146 Holborn Bars, E.C.

LOCUM (qualified) for fortnight, August or September; Junior kept; outdoors. Terms, references, and photo if possible, Stokes, Chemist, Eastville, Bristol.

LOCUM for July for small single-handed Country business; very easy post; short hours; pleasant neighbourhood; would be a nice holiday. 125/13, Office of this Paper.

LOCUM wanted, steady, reliable, qualified, for 14 days from July 15 next. State inclusive terms (outdoors), Latty, Chemist, Brislington, Bristol.

LOCUM, qualified preferred, for six weeks from August 4, or from middle of July to end of August; outdoors; no Sunday duty. Liversidge, Chemist, York.

LOCUM (qualified) wanted for 14 days in July. Apply, stating experience, references, and salary required, to Dyson, Chemist, 65 Marlborough Road, Hightown, Manchester.

LOCUM wanted; qualified; used to good-class business. Apply, with full particulars, to R. C. Harrison, Pharmaceutical Chemist, Grayshott, Surrey.

MANAGER or Locum required at once for a small branch. Full particulars in first letter, Murray, 221 Woodhouse Lane, Leeds.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist as Manager; easy hours; good and progressive salary, with excellent prospects.

M. ROGERSON & SON, LTD., Darley Street, Bradford, require a smart qualified Manager for their Harrogate branch; must be good Salesman and Window-dresser. Send full particulars, stating salary required, along with photograph, to above address.

MANAGER (qualified) required for Branch; comfortable position and easy hours; no Sunday or B.H. duty; every consideration shown good man; good salary and commission on certain sales and net profits. State age, height, experience, salary expected, and give references in first letter, "Confidential," Martyn's Stores, Queen Street, Wolverhampton.

MANAGER, qualified, for Branch; good hours; progressive salary; abstainer preferred. Apply, with full particulars and references, to W. Parry Williams, Chemist, Bargoed, Glam.

MANAGER, qualified, for Branch business; liberal terms to suitable man. Cragg & Shepherd, Chemists, 214 Arkwright Street, Nottingham.

MANAGER, qualified, with good general experience; married preferably; good position and prospects to reliable and energetic man; age about 27 to 30. Apply, with full particulars, to 253/11, Office of this Paper.

MANAGER (30 years, preferably married), qualified, wanted for Retail business; good prospects for capable man. Reply to 126/37, Office of this Paper, stating salary, experience, etc.

MANAGING Assistant for high-class Retail and Dispensing business on South Coast; must have had first-class Retail experience and be possessed of good business ability; liberal salary and excellent prospects; three kept; permanency assured to suitable man. Please give all particulars and enclose photo, "Adalin" (126/13), Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, have a vacancy for an unqualified Assistant; permanency and good salary.

PHARMACIST, with a view to permanency if suitable; one used to good-class Dispensing and Family trade, with a little Photography, and capable of taking sole charge if required; must be steady, reliable, and trustworthy; indoors; two others kept. State age, height, salary, and references, photo, "J." (128/800), Office of this Paper.

QUALIFIED Assistant wanted, young. Full particulars and photo (if possible) in first letter to Ritson, Pharmacist, Carlisle.

QUALIFIED Manager for Branch. Write, stating full particulars, wages, and photo if possible, to V. Wilson, M.P.S., Alvaston, Derby.

QUALIFIED Assistant Dispenser required from August 1 to September 5 inclusive; hours 9 a.m. to 6 p.m.; salary £2 10*s.* per week; no Sunday duty. Apply, Secretary-Superintendent, Royal Infirmary, Bradford.

QUALIFIED Manager wanted; must be good all-round business man; give experience, age, height, and photo; interview preferred. Whigham, 22 Brook Street, W

QUALIFIED Assistant, not under 25; hours 8.30 to 8, except Saturday; Thursday half-holiday; salary £3 (outdoors). State age, height, present and previous situations, with references, enclosing photo if possible, Reade Brothers & Co., Ltd., Wolverhampton.

QUALIFIED Locum for a fortnight from July 27 or 28. Jones Bros., Pharmacists, High Street, Mexborough. Please send terms and references.

QUALIFIED for Branch for July 6; energetic, willing. State wage expected and all particulars, Russell, Chemist, Leigh, Lancs.

QUALIFIED Assistant; accustomed to good-class Retail and Dispensing; preference to one seeking permanency; country town; hours reasonable. State particulars of height, age, experience, and salary required (outdoors), to "Sille," c/o British Drug Houses, 22 Graham Street, City Road, London, N.

QUALIFIED Assistant wanted for first-class Dispensing and Retail business. State age, height, salary required, and enclose photo if possible, Bailey, Chemist, 61 Old Dover Road, Blackheath, S.E.

QUALIFIED Assistant for Light Retail and Dispensing business; no Sunday duty; usual weekly half-holiday. W. Gill, Pharmacist and Optician, 207 Radford Road, Nottingham. Knowledge of Optics not essential.

QUALIFIED Assistant for London; three or four in the business and duty divided. Apply, Mr. Robinson (Malden & Co.), 195 Brompton Road, London, S.W.

QUALIFIED Assistant wanted at an early date for Light Retail and Dispensing business; easy hours; close 1 Wednesdays; no Sunday duty; good boating and bathing. State particulars, salary required, age, etc., Crick, Maldon, Essex.

QUALIFIED Assistant, with London West-End experience, required for best-class West End Pharmacy. Apply, with full particulars of previous experience, salary required, etc., to 129/31, Office of this Paper.

QUALIFIED Assistant wanted by end of June for a good-class Country business; outdoors; no Sunday duty; short hours; three others in shop; please state age, height, and salary required, photo if possible. Apply, Exors. of E. Booth, Crewe.

QUALIFIED, elderly Assistant wanted; light duties; easy hours arranged, or evening employment only. Apply, 127/36, Office of this Paper.

QUALIFIED Locum for Yorkshire, for two weeks from June 19; one used to country trade preferred. State terms, 127/390, Office of this Paper.

QUALIFIED Manager required for June 22, to relieve country managers for holidays, for about three months; permanent management afterwards if satisfactory; must be a man of ability and absolute integrity. "Country" (127/44), Office of this Paper.

QUALIFIED Assistant, about 25 years of age, preferably with town experience; short hours; no Sunday duty; salary to commence £130. Apply, by letter, giving particulars, 129/28, Office of this Paper.

QUALIFIED Manager for Branch in Commercial Road, London; Light Retail and N.H.I. Dispensing; easy position for suitable man; large house over shop if desired. Personal application preferred to Nobles, Ltd., 2 Well Street, Cable Street, E.

QUALIFIED Assistant, age about 24, for Dispensary and Front Counter; hours 8.15 a.m. to about 6.15; Saturdays 1 o'clock p.m. State experience and salary required to "T. M.," Junior Army and Navy Stores, Ltd., 15 Regent Street, London, S.W.

RELIEF Assistant for six weeks, commencing June 15 or later; qualified preferred, but not essential; outdoors; moderate hours; no Sunday duty. Apply, stating terms, to A. J. Wing, Pharmacist, 69 Powis Street, Woolwich, S.E.

RELIABLE unqualified Assistant; outdoors; no Sunday duty; half-day holiday weekly. Give full particulars, stating salary required, J. A. Moore, Chemist, Grimsby.

REQUIRED at once, Assistant, lady or gentleman, qualification not essential; experienced in Counter work, Photography, and Dispensing. State full particulars, H. & F. Pyman, Chemists, Herne Bay.

REQUIRED, Lady Locum Dispenser for Medical Man from July 11 to end of August. Apply, G. Curling, Wyman & Co., 58 Bunhill Row, E.C.

RESIDENT qualified Assistant; single; must be active, reliable, and a good Dispenser; permanency for suitable man; must possess good references; age about 28. Apply, stating salary (indoors) and photo, to "Revilo" (128/80), Office of this Paper.

SEASIDE Resort.—Experienced unqualified Assistant wanted to help open new branch and for season; salary £2 10*s.* Apply, with full particulars, to the Proprietors, Maskew & Co., 26 & 27 Electric Parade, Clacton-on-Sea.

TEMPORARY Assistant required during holidays; unqualified; middle June to end September. Full particulars to J. & H. A. Averill, Pharmaceutical Chemists, Stafford.

THOROUGHLY capable Assistant required immediately, qualified or unqualified, for good-class Dispensing business. Apply, full particulars of experience, height, salary (indoors), and enclose photo if possible, "Sussex" (128/34), Office of this Paper.

TWO Assistants (outdoors) for a good country business; must be smart Countermen and Dispensers; one half-day off weekly. Dixon & Sons, Chemists, East Grinstead.

UNQUALIFIED Locum required for a fortnight in July (not before 6th) to take charge of small Drug Store in London; outdoors; no evening duty on early closing day. Give terms, reference, and full particulars to 125/29, Office of this Paper.

UNQUALIFIED Locum wanted, August 3 to September 5. State terms and references to Lands, Chemists, Coalville, near Leicester.

UNQUALIFIED Assistant for medium-class business, Dispensing, Counter, and Photographic; outdoors; not any Sunday duty; close Thursday at 1 o'clock. Apply, giving full particulars, to Hooper's Drug Stores, Ltd., 291 Rye Lane, Peckham.

UNQUALIFIED Assistant; capable of taking charge of Branch in East End. Please give full particulars in first letter, stating salary required, 130/140, Office of this Paper.

WANTED until end of October, smart Junior Assistant (with knowledge of Photography preferred) in Light Retail and Photographic business; indoors. State experience, etc., to Wm. Pickard, Pharmacist, Belle Vue, Bude, North Cornwall.

WANTED immediately, Assistant to help during holidays for five weeks; outdoors. State salary, etc., Gordon & Boyle, Chemists, Boscombe.

WANTED at once, unqualified Assistant for summer months; experienced and knowledge of Photography. Apply, stating full particulars, R. E. Pearce, Chemist, Newquay, Cornwall.

WANTED, in a lovely country town in Devon, elderly qualified man to conduct a widow's business with the help of an Assistant; very light duties, comfortable home, and nominal salary; abstainer and Churchman preferred. 128/26, Office of this Paper.

WANTED, an Assistant, 24 to 30 years of age, accustomed to good-class business, for high-class Dispensing and Retail, with Photography; in- or out-doors; easy hours. Usual particulars to T. E. Savage, Pharmacist, Crouch End, N.

10 CHESTER PLACE, Hyde Park, W.—Assistant wanted for a Dispensing business. Apply Maitland's.

## WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box number being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

EDINBURGH.—Drug Traveller wanted for Glasgow and district. 252/53, Office of this Paper.

LONDON Manufacturing Chemists require Junior hand, aged about 16, for Laboratory work, with some knowledge of the Manufacture of B.P. Preparations, Ointments, Powders, Pill Masses, etc. Apply, stating wage required, to 128/360, Office of this Paper.

N.W. LONDON.—Young woman wanted for packing Chemists' Specialities; must be thoroughly experienced and capable of exercising control. Write, full particulars of age, experience, and wages required, to "F. W." (130/110), Office of this Paper.

A FEW very smart Travellers for the Provinces required who represent first-class houses, to carry in pocket well-introduced, unrivalled Household Proprietary Article in daily demand, having a tremendous sale in London; liberal commission to right men. Apply, 125/9, Office of this Paper.

CHEMIST required, who has had considerable experience in ascertaining Moisture, Organic and Inorganic Matter in connection with Tobacco in all forms of manufacture. Reply by letter, "Laboratory," Ardath Tobacco Co., Ltd., Worship Street, E.C.

CHEMIST, experienced in the production of high-class saleable Toilet Preparations and Perfumery, for London works; aged about 30; of proved energy, industry, and reliability. Address particulars of experience, salary, etc., 129/38, Office of this Paper.

COUNTER hand, aged about 20, required on Dry Floor of London Wholesale house. State previous experience and wages required to 128/36, Office of this Paper.

DISINFECTANTS.—Experienced, capable man wanted for the manufacture of Disinfectants, Sheep Dips, Weed-killer, Coal Tar Preparations, Co-efficients, Greases, etc., for London; permanency to suitable man. Address, stating full particulars and wages required, to 125/31, Office of this Paper.

DRUG Invoice Clerk wanted. State age, experience, and salary required, Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

GRANULATOR and Tablet-maker required by a London firm, accustomed to Aloes, Cascara, etc., also experienced Pill-maker. Apply, 126/24, Office of this Paper.

PACKED Goods Department.—Wanted, young man, with taste and experience of this work, to take charge of a small department in a N.W. Provincial Drug house. Apply, with full particulars in first letter, to "Cinnam." (251/28), Office of this Paper.

PHARMACIST, age about 24, energetic, and possessing good business ability, required by firm of Wholesale Chemists for position on their office staff; the position is one calling for some knowledge of Therapeutics, ability to organise work and conduct commercial correspondence; applications from newly qualified men will be considered equally with others. When applying state age, salary required, previous experience, etc., to 250/62, Office of this Paper.

PILLS.—Smart and experienced Pill hand wanted by London house. State full particulars of age, experience, and wage required to "P." (130/11), Office of this Paper.

SUNDRIES Department.—Youth, age 16 to 18, with a little experience preferred. Apply, giving full particulars, 130/15, Office of this Paper.

THOROUGHLY competent man wanted for Making and Coating Tablets in Yorkshire. Full particulars, 253/22, Office of this Paper.

TRAVELLER with connection London and Suburbs; Capsules, Sundries, etc.; permanency to good man; £1 per week and good commission; also man to carry Chemists' papers as side-line commission. Write only, "E. T. C.," 4 Churchill Road, Somerton, N.E.

TRAVELLERS wanted, calling on Chemists and Stores, to take up permanent Side-line for Birmingham and district; 10 per cent. commission. State house represented, "S. B." (124/32), Office of this Paper.

WANTED in the neighbourhood of London, a competent Assistant Chemist; one with practical experience in Analysing Petroleum Products preferred. Write, stating full particulars as to age, previous experience, salary required, etc., to "X. Y. Z." (125/32), Office of this Paper.

YOUNG man for Dry Floor in Lancashire Drug house; previous experience essential. Apply, with full particulars, 124/3, Office of this Paper.

# SITUATIONS OPEN.

## (Colonial, Indian and Foreign.)

**3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.**

BOMBAY.—Qualified Assistant wanted for a first-class private British firm of Chemists; age not over 30; three years' agreement; salary £200 first year, £220 second year, £240 third year; passage paid out and home by P. & O. steamship. Apply, with copies of testimonials and photo, to "R. L.," S. Maw, Son & Sons, 7/12 Aldersgate Street, London, E.C.

BRITISH EAST AFRICA.—Qualified Assistant; good Salesman and Dispenser; salary £20, £22, and £24 per month; second-class passage paid out; an exceptional opportunity for good man; references must be undeniable. Fullest particulars, including age and experience, to "Nairobi," Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, London, E.C.

BRITISH EAST AFRICA.—Qualified Assistant, with good experience; 3 years' agreement; passage paid; good salary to suitable man; hours easy. Apply, with full particulars, 129/30, Office of this Paper.

CALCUTTA.—Messrs. Bathgate & Co. require two Junior Assistants, with Minor qualification, age 21 to 26, unmarried; passage paid both ways; four years' agreement; salary first year (monthly) Rs. 250, second Rs. 275, third Rs. 300, fourth Rs. 325. Apply, giving particulars of experience, to Messrs. Alex. Lawrie & Co., 14 St. Mary Axe, London, who will be pleased to answer all inquiries.

CHINA.—Drug Warehouse Clerk, experienced in keeping Stock-books and pricing goods; age not over 30; good salary; passage paid out and home; four years' agreement. Address, "China" (125/15), Office of this Paper.

INDIA.—Required shortly, a first-class qualified Assistant, age about 23, for English Chemists doing high-class trade; good salary and prospects for right man; four years' agreement; passage paid both ways. Write, giving full particulars of qualifications and experience, to Indo Burma Co., Ltd., 108 Wool Exchange, E.C.

INDIA.—Representative required by a firm of Manufacturing Chemists, age about 25, single, qualified, and well up in Therapeutics; the position is one offering good prospects of advancement to capable and energetic man. Application in the first place should be by letter, in which full particulars of age, past experience, salary required, etc., should be given, 250/620, Office of this Paper.

SOUTH OF FRANCE.—English Assistant required; single; knowledge of French language and French Pharmacy; 250 francs per month (indoors). Fullest particulars and references to "F. J. R. B.," c/o Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, London, E.C.

REQUIRED, a fully-qualified Chemist to take charge of a Pharmacy in Hyderabad, Deccan; age 30 to 35; 4 years' agreement; passage paid; salary rising from rs. 275 to rs. 350 per month. Address, with all particulars, to 129/1, Office of this Paper.

"GUIDE TO PRELIMINARY EXAMINATIONS IN PHARMACY," ETC.—Many of our readers will be considering from time to time what to do with their sons, and in this connection may desire to ascertain the degree of difficulty of examinations for pharmacy, medicine, dentistry, etc. This little volume contains full information as to the regulations, together with sample papers and many useful hints on all the subjects given at the Preliminary examinations for these professions, and it is a book necessary to the intending competitor and useful to the parent seeking information.—*The Schoolmistress.* [The "Guide" is published at 2*s.* 6*d.* by post 2*s.* 9*d.*, THE CHEMIST AND DRUGGIST (Book Department), 42 Cannon Street, London, E.C.]

# SITUATIONS WANTED.

**1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.**

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

## [HOME.] RETAIL.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box number being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

ADVERTISER requires three or four days a week; Dispensing, Counter, or Stock; West London preferred. 127/18, Office of this Paper.

ASSISTANT; unqualified; 35; 18 years' good all-round experience; capable Dispenser, Counterman; excellent references. "Anthrosal" (125/12), Office of this Paper.

ASSISTANT or Representative; married; 33; height 5 ft. 8 in.; best London and provincial experience; Photography, Window-dressing; permanency. 11 Marine Place, Seaton, Devon.

ASSISTANT disengaged; Dispenser, prize Window-dresser. "Adair," 17 Russell Road, Leyton.

DENTISTRY, Pharmacy, Optics, etc.; Physician's Surgery. Prescribing experience; single-handed management; non-reg. 128/7, Office of this Paper.

DISPENSER (lady); Hall; 3 years' experience; Doctor, Chemist, or Institutions; Bookkeeping, Dressings, etc.; good testimonials. Address, 125/11, Office of this Paper.

EVENING employment, any capacity; West-End experience. "Qualified," 360 Goldhawk Road, Ravenscourt Park, W.

EXPERIENCED Dispenser (25), qualified under N.H.I., desires post. "C. M." (120/15), Office of this Paper.

EXPERIENCED Managing Assistant or Locum; middle-aged; reliable. "Extractor," 8 Marlow Terrace, East Ham.

FRENCH Assistant (27), speaking German and Dutch, slight knowledge of English, seeks situation in Pharmacy, London preferred; 10 years' experience; good references. Write, Maesschalck, 81 Holland Park, London, W.

JUNIOR; 23; good appearance; soon disengaged; Liverpool or Manchester preferred; hours 8 to 8. 123/37, Office of this Paper.

JUNIOR; 20; 5 years' experience; knowledge of Mechanical Dentistry; London district preferred. Walter Dawe, Bridge Street, High Wycombe, Bucks.

JUNIOR; tall; 21; good experience. Morgan, 91 Llewelyn Street, Pentre, Glam.

LADY Dispenser (Hall) desires post, Doctor or Chemist; Locum or permanent; thoroughly experienced; good testimonials. Apply, "D.," 38 Queen's Park Terrace, Brighton.

LADY Dispenser (Hall) requires post with Doctor or Institution; first-class references; Bookkeeping. "W.," Studley House, Prebend Street, Leicester.

LADY; 21; Counter, Bookkeeping; good Dispenser. 128/14, Office of this Paper.

LOCUM, London or near, from July 13; unqualified; tall; age 26; Dispensing and Photographic. B. R. Mason, 10 Kylemore Road, W. Hampstead, N.W.

LOCUM; 23; disengaged July; reliable. "Asquith," 4 Ferndale Road, Clapham Road, S.W.

LOCUM; disengaged 16th; South experience; qualified; abstainer. "Optico," Townsend, Westbury-on-Trym.

LOCUM; first-class experience and references; disengaged; gentlemanly and trustworthy; North or Midlands preferred. "Pharmacist," Hope Villa, Grove Street, Didsbury, Manchester.

LOCUM; 35; unqualified; good experience; disengaged. Dewar, 49 Crofton Road, Plaistow.

LOCUM; town or country; qualified; salary proportionate responsibility plus railway journey; age 48. Lyon, 2 Auckland Villas, Egerton Gardens, Hendon, N.W.

LONDON.—Unqualified; 33; Counterman, Dispenser; good references and experience; permanency preferred. "Obliging" (126/3), Office of this Paper.

MANAGERSHIP desired by Pharmacist (25), at present controlling Dispensary of large departmental store; high-class training and experience; excellent references and record. "Exactus" (127/14), Office of this Paper.

MANAGERSHIP with view to early succession; Yorkshire or Northern Counties preferred. 127/29, Office of this Paper.

PART-TIME; one day weekly (Tuesday); excellent reference; abstainer. "A. B.," 15 Blackstock Road, N.

QUALIFIED; 50; Locum or permanency; active. "Statim," 37 Brideoak Street, Cheetham, Manchester.

QUALIFIED; Branch or Locum; middle-aged; disengaged. "Chemist," 53 Hawthorn Street, Burslem.

QUALIFIED; 42; single; Dispensership, full or part time. Partnership entertained. Kindly give particulars, hours, salary, etc., in first letter, "Chemist," 1 Robinsons Place, Woodhouse Hook, Oldham.

QUALIFIED Manager; 31; married; excellent experience; good class Retail, Dispensing, and Photography; full particulars, salary, hours, etc. Apply, 128/30, Office of this Paper.

QUALIFIED seeks Management, easy Partnership; experienced; would introduce or develop Optical Department; practical London. "Salud" (127/34), Office of this Paper.

QUALIFIED; 31; 16 years' experience, Counter, Dispensing, N.H.I., etc.; London district preferred. "Bengol" (126/40), Office of this Paper.

QUALIFIED; 35; tall; married; Counter, Dispensing; disengaged 20th. Stewart, 16a Highgate Road, N.W.

STARTING or re-organising Optical Department. — Qualified Optician, with large experience, is open for temporary engagement; first-class references and proofs of capabilities in organising and placing Optical Departments on paying basis. 123/8, Office of this Paper.

TEMPORARY situation required for about three months; Minor qualification. Particulars, etc., to 128/17, Office of this Paper.

THIRTY-FIVE years' Retail experience, with excellent references; situation as Assistant or Manager of Drug Store; unregistered; 54; exceptional Dental experience, Extraction (with or without Anæsthetics), Sight-testing, Prescribing. 124/2, Office of this Paper.

UNQUALIFIED Manager; 12 years' practical experience; good Window-dresser; permanency; age 30; tall; married; excellent references. 124/24, Office of this Paper.

UNQUALIFIED; good references; 38; disengaged. "Beta," 3 Avenue Road, Swindon.

UNQUALIFIED Assistant; 22; 7 years' experience in first class Retail, Dispensing, and Photography; best references; disengaged soon. "Hughes," 269 Wilmslow Road, Fallowfield, Manchester.

UNQUALIFIED; middle-aged; experienced and reliable; now disengaged. Parlow, Moorfield Road, Orpington.

UNQUALIFIED Assistant, age 26, 10 years' experience, requires berth; good references; good Dispenser, etc. "Chemicus," 16 Romilly Road, Finsbury Park, London, N.

UNQUALIFIED Assistant; smart appearance; 7 years' high-class experience; good Counterman and accurate Dispenser; Eastbourne preferred. "Aspirin," 17 Victoria Parade, Felixstowe.

UNQUALIFIED; evening work wanted; Dispensing or Surgery Attendant. "A.," 24 College Street, Chelsea.

UNQUALIFIED, experienced Branch Manager; married; no family; permanency; strictly temperate; good worker. 127/38, Office of this Paper.

UNQUALIFIED; married; 24; N.H.I. and private Dispensing; Photography; reasonable hours; moderate; Dispensary or Pharmacy. 127/6, Office of this Paper.

UNQUALIFIED; tall; disengaged; mid-age; Prescriber, Dispenser, etc. "Reasonable," 94 Edward Street, New Cross.

WANTED, a position as Compounder and Bookkeeper; applicant a final year Medical Student; passed in Pharmacy at Apothecaries' Hall, Dublin. 126/18, Office of this Paper.

## WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box number being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

A WELL-ESTABLISHED Traveller, representing an old firm amongst Chemists in London and district, is at liberty to Represent another house for a good saleable article. Full particulars to "Traveller" (130/16), Office of this Paper.

A YOUNG gentleman, aged 18, of acceptable personality, having general knowledge of Chemistry and Physics (Matric. standard), greatly desires to enter the service of a strong Wholesale house with a view to ultimately going on the road. "E. J. W.," 31 Southwood Avenue, Highgate, N.

CERTIFIED Swiss Druggist, 6 years' experience, French and German knowledge, seeks engagement in office or shop. P. Zimmermann, 28 Highbury New Park, Highbury.

CLERK (German Swiss); speaks and writes French and German perfectly, English fairly well; age 23; 6 years' good experience in Drugs and Specialities. P. Hunziker, 11 Cambridge Road, Hammersmith, W.

CLERK (30) seeks situation; Wholesale and Retail experience; good experience Invoicing and general Office work; excellent references; moderate salary. 129/2, Office of this Paper.

COLONIALS desirous of meeting a good man to transact their business in London; well known in the Drug, Druggists' Sundries and allied trades; highest references. Apply, 130/6, Office of this Paper.

ENERGETIC, abstainer, age 31 years, extensive commercial experience at home and abroad, capable organiser, seeks position of trust, or would travel; Yorkshire and the North; home office if desired. Apply, 127/39, Office of this Paper.

TO Manufacturers of Medical, Toilet, Perfumery, and Proprietary Articles.—Chemist open to engagement; original Formulae new and established; large London business experience. 123/34, Office of this Paper.

TRAVELLER, registered Druggist, at present disengaged, desires to Represent good house for Ireland; Drugs and Sundries; well known to Belfast Chemists. 125/3, Office of this Paper.

## SITUATIONS WANTED.

### (Colonial, Indian and Foreign.)

**1s. for 12** words or less; **6d.** for every **10** words beyond, prepaid. The **Advertiser** may, if preferred, have replies addressed to this office, and forwarded on payment of an additional charge of **6d.**

*This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies or elsewhere abroad.*

NEW SOUTH WALES.—To firms requiring an expert Representative in this State the advertiser offers his services; strictly sober; most reliable, energetic; capital Salesman; character the highest; wide experience; well known throughout the Commonwealth to the Drug and Sundries trade; best English references. Apply in the first instance, 122/11, Office of this Paper.


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**THE SELLING POWER OF YOUR WINDOW—DOES IT PAY?**

**NOT—THEN SECURE AN INCREASE OF TRADE.**

Send P.O. 1/10, Name of TWO PREPS. of 15 Words each, and secure TWO of LATEST DISPLAYED CARDS, size 15×10 and 12×9½, sent CARR. PAID, and prove for yourselves THEIR SELLING POWER.

**MERTEN & CO., 72 Marlborough Rd., HOLLOWAY, LONDON, N**

## SCOTLAND SPEAKS.

"I am joining you again (3rd year), as I find it is impossible to keep up-to-date without your assistance."

Remember, up-to-date ideas in window shows, advertising, new specialities, window centres, are my Speciality. State your requirements. Sample Window Centre sent post free 2/6; only one Pharmacist in a town supplied. Special ones suggested and designed.

**BILLYARD ALLISON, PHARMACIST, RETFORD.**


## MISCELLANEOUS.

McADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone 81 Lee Green.

Shares for Sale (free of commission, subject).—60 Allenburys' "B" Preference, 23*s.* 6*d.*; 300 Meggeson Ordinary, 21*s.* 7½*d.*; 100 St. Ivel 6 per cent. Preference, 16*s.* 10½*d.*; 200 Mazawattee Ordinary, 2*s.* 4½*d.*

Wanted (subject).—100 Camwal Preference, 4*s.* 10½*d.*; 2 Debentures, 34 each; 300 Idris "A" Preference, 3*s.* 6*d.*; £500 Debentures, 61¾; 1,000 Parke's Drug Ordinary, 4*s.* 9*d.*; 170 Wright, Layman Preference, 20*s.* 7½*d.*; 10 Bleasdale, 102*s.* 6*d.*

List of Shares for *Sale* and *Wanted* sent free on application. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

CHRISTOPHER BEDFORD, DECEASED.
Pursuant to 22 and 23 Vict., cap. 35.

NOTICE is hereby given that all persons having claims against the estate of Christopher Bedford late of 6 St. Swithin's Lane and 3 Queen Street in the City of London, Chemist, trading as Bedford & Co. (who died on the 10th April 1914), are required to send particulars thereof, in writing, to the undersigned, Solicitors for Frederick Beaumont Morgan and Edward Francis Whaite, the executors of the will of the deceased, on or before the 27th day of July 1914, after which date the assets of the deceased will be distributed, having regard only to claims of which the executors shall then have had notice.

Dated this 11th day of June 1914.

MORGAN & HARRISON, 15 Old Jewry, E.C.,
**Solicitors for** the Executors.

SHOPFITTINGS.—Marble-top, Mahogany and Plate-glass Sponge Case, 79*s.* 6*d.*; 5-ft. Mahogany and Plate-glass Counter Case, 80*s.*; 6-ft. Mahogany and Plate-glass Counter, 80*s.*; Perfume Case and Desk, 40*s.*; hundreds of cash bargains; inquiries solicited. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.

CHEMISTS' Fittings, Silent Salesman Showcases, Drugfittings, Dispensing-screens, Wall-cases, Perfume-cases, Desks, Glass-front Counters, Counter Drawers, Shop-soiled, Second-hand, at unbeaten prices; before you decide get my estimate, you can't do better; 30 years fitting Pharmacies. George Cook, the Chemists' working Shopfitter. New address: Catherine Street, City Road, E.C. (few doors from Old Street).

BIG BARGAINS IN SECOND-HAND SHOPFITTINGS.—1 set Plate-glass Window Shelves, with Tapped Bars and Brackets, 3 ft. long, 25*s.*; 1 set ditto, about 5 ft. long, 40*s.*; 1 set ditto, 55*s.*; 12-ft. Range Mahoganised Drawers, Gold Labels and Glass Knobs, £6; 120 Gold-labelled Shop Rounds, 92*s.*; 4-ft. Wall Case, £5; 6-ft. Dispensing-screen, 95*s.*; 3-ft. Silent Salesman, 75*s.*; 6-ft. ditto, £7 10*s.* R. TOMLINSON & SONS, Headquarters for Chemists' Fittings, Bond Street, Birmingham.

CHEMISTS' Second-hand Modern Fittings.—14-ft. Drug Fitting; 10-ft. Glass-fronted Counter; Nest of Counter Drawers; 6-ft. Dispensing Screen and Counter; Perfumery Case and Desk; Mahogany and Bent Plate-glass Counter Case; 8-ft. Window Enclosure and Plate-glass Mirror; the lot £49, bargain; send for sketches, cheapest house for structural alterations, Shopfronts, Window Enclosures, Glass Shelves; Estimates free. H. MILLS, Chemists' Shopfitter, Shop-front Builder, and Glass Facia Works, 163-5 Old Street, E.C.

BEST cash price for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S. E. Hackett, 23 July Road, Liverpool, E.

£25 10*s.* will buy 12 ft. Drug Fitting (Glass Knobs and Labels), 11-ft. Mahogany-top Counter, 4-ft. 6-in. Wall Case, Dispensing Screen and Counter, Perfume Case and Desk; all sound and in good condition. Call or write, RUDDUCK & CO., 262 Old Street, E.C.

SODA-WATER Trolley, that makes heavy work light, and on which a boy of 8 can easily convey 3 dozen syphons; will go through any doorway; dozens in use in all parts of the country; carriage paid, 37*s.* Sole Makers, Arthur & Co., 9 K.P., Cambridge.

TO Manufacturers of Filter Papers and the Like.—The Proprietor of Patent No. 13506 of 1910 is desirous of entering into negotiations for the grant of Licenses to manufacture on royalty or otherwise, or to treat for the sale of the Patent outright. Particulars will be furnished on application by A. M. & Wm. Clark, 53 Chancery Lane, London, W.C.


## THE CHEMISTS' FRIENDLY SOCIETY

Assistants and Apprentices—support your own Society. It is the Drug Trade Approved Society for the United Kingdom. Members advancing the claims of the Society are benefiting themselves, the Society being mutual. Forms of application for admission on request from

THE MANAGER, C. F. S. (C Dept.),
194 St. Vincent Street, GLASGOW.

# EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No advertisement inserted for less than 6*d*.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

## FOR DISPOSAL.

### BOOKS AND PERIODICALS.

OFFERS.—Wills' "Manual Chemistry," 1902; Southall's "Materia Medica," 1896; University Correspondence College matric. books, complete course. Ellisson, Hednesford.

### DENTAL.

OFFERS.—Harris's "Dentistry," 1907, cost 37*s*.; 2 .50-gall. "gas" cylinders, with stand; one 20-gall. cylinder; Hunter's "Mechanical Dentistry," 1887. Ellisson, Hednesford.

DENTAL motor, with brush and wheel chucks, No. 4 handpiece, cord and adaptor to fit wall or lamp socket; continuous current, 200/230 volts; £2. Hickman, 5 Abbotts Road, Southall.

### DRUGS AND CHEMICALS.

OFFERS.—1 cwt. commercial powdered borax. Ellisson, Hednesford.

TO Agricultural Chemists.—5 cwt. of sodium carbonate, 98 per cent., for potato-spraying purposes; 33⅓ per cent. off current prices. Evans, Chemist, Birchington.

### OPTICAL AND PHOTOGRAPHIC.

TWO No. 3 cartridge Kodaks, cheap, or exchange. Gwynne, Chemist, Liscard.

### PROPRIETARY ARTICLES.

WHAT offers, 12 2*s*., 11 2*s*. 6*d*., 4 5*s*. Chapman's cattle oils? Armitage, Chemist, Greenock.

WRIGLEY'S gum, 4 boxes (100 bars in each), 1*s*. 6*d*. box; Wait and See pills, 2 doz., 6*s*. 6*d*. doz.; 1*s*. Marshall's cubeb cigarettes, 1 doz. at 6*s*.; 2*s*. 9*d*. Wyeth's beef juice, ¼ doz. at 20*s*. doz.; 2*s*. 9*d*. Vogeler's comp., ¼ doz. at 18*s*. doz.; carriage paid. Needham, 297 Edgware Road, W.

### SHOP FITTINGS.

MAHOGANY counter, plate front, mahogany desk, and plate perfume case with plate shelves. Steel, Bitterne.

### MISCELLANEOUS.

SUTCLIFFE keratometer, non-illuminated dial, with adjustable table and stand complete; in excellent condition; fitted for electric light; cost £18 18*s*.; will accept £10 10*s*. Whysall, Chemist, Grantham.

## WANTED.

DRUG-FITTING, 14 ft., also counter-case, recess-label shop-rounds. 123/39, Office of this Paper.

CASH tills, two small second-hand, wanted. State condition and lowest price, 123/6. Office of this Paper.

DENTAL show-case, with specimens. Illustration, size, and price to George, Chemist, Pentre.

SECOND-HAND dispensing counter with drawers underneath; no front screen required. Bates, Brooke's Bar, Manchester.

SECOND-HAND platform scales; weigh up to 2 cwt.; good condition. State price, Castle Tablet Co., Ltd., 106 Barnsbury Road, N.

**OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, London, S.W.**


# Talking Cards on Approval.

I will send three Talking Cards on approval to any qualified pharmacist who will write for them on printed business letter heading. Simply name five cards (not three) from my list in order of preference. I will send the first three if no other chemist in your locality has them: otherwise three that will not duplicate with his. Write for details; or see "C. & D." June 6, page 26.—BROMLEY, Chemist, Whetstone, Middlesex.


# COMING EVENTS.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

**Tuesday, June 16.**

*Cheltenham and Gloucester Pharmacists' Association.* Annual outing and motor trip to Minchinhampton. Cars leave Cheltenham at 1.30 and Gloucester at 1.15. The two parties will join at Crickley Hill. The return journey will be at 7 P.M. Tickets (including tea) 6*s*. each. Particulars from Mr. T. T. Dolman, Hon. Secretary, 32 Upper Bath Road, Cheltenham.

**Wednesday, June 17.**

*London (S.W.) Pharmacists' Association.* Visit to the factory of Kodak, Ltd. Train leaves Euston Station at 2 P.M. Mr. E. A. Atkins, Hon. Secretary, 71 East Hill, S.W., will supply further particulars.

*Thames Valley Pharmacists' Association,* Thames Valley Café, Kingston, at 9 P.M. Social supper and presentation to Mr. W. H. Peake, Hon. Secretary. Tickets (2*s*. 6*d*. each) from Mr. Alfred Higgs, J.P., Kingston

*Liverpool Chemists' Association.* Picnic to the Ribble Valley. The start will be from the Exchange Station by special saloon train at 1.30 for Whalley, thence by waggonettes to Stonyhurst, Milton Church, and Clitheroe. Tea will be taken at the last-mentioned place. The return journey will be from Clitheroe at 9.10, Liverpool being reached at 10.25. Mr. John H. Robinson informs us that all the 150 tickets have been sold.

*Pharmaceutical Society,* 36 York Place, Edinburgh, at 11 A.M. Annual meeting of members in Scotland and election of Executive.

**Thursday, June 18.**

*Chemical Society,* Burlington House, London, W., at 8.30 P.M. Among the papers to be communicated are the following: "Nitrogenous Constituents of Hops," by Mr. A. Chaston Chapman; "Colouring-matters Contained as Glucoside in the Flowers of some Indian Plants," by Messrs. A. G. Perkin and I. Shurlman; "A New Chlorocamphor," by Messrs. T. M. Lowry and V. Steele.

**Saturday, June 20.**

*St. Vincent Association.* Annual river trip, leaving Paddington at 11.20 for Wallingford, and thence by launch to Caversham Bridge Hotel, where dinner will be served. Tickets (16*s*. inclusive) from Mr. J. R. Bailey, Hon. Secretary, 11 Crosbycote Avenue, Herne Hill, London, S.E.

London (S.W.) Pharmacists' Association.—A summer outing has been arranged for June 24 by motor to Tunbridge Wells, starting from the "Plough," Clapham, at 2 P.M. Tickets (5*s*. each) from Mr. E. A. Atkins, Hon. Secretary, 71 East Hill, Wandsworth, London, S.W.

Portsmouth Pharmacists' Association.—The annual outing has been arranged for June 22. It will take the form of a motor trip. The motor will leave the Town Hall at 9.45 A.M. Lunch will be taken at the Bridge Hotel, Arundel, and tea at Midhurst.

West Ham Association of Pharmacists.—A river trip will be taken on June 25. Leave Paddington Station 1.20 P.M. for Windsor; Windsor to Henley by launch. Return per train to Paddington; arrive 9.15 P.M. Fares 6*s*. For further particulars apply to Mr E. Miller, 273 Victoria Dock Road, London, E.

## A Supplement to Whitsun.

On Friday, June 5, the staffs of The Chemist and Druggist and "The Ironmonger" left work behind, and spent the day at Eastbourne, this being the place chosen for their annual outing. The party met at Victoria in time for the ten o'clock train. Cameras were much in evidence, photography being a favourite hobby with both sexes at 42 Cannon Street. By 12.30 luncheon in the Grand Hotel was welcomed. After this cigars and cigarettes were handed round (the ladies all receiving chocolates), and the toasts of "The King" and "The Firm" were duly honoured. The latter toast was given by Mr. W. A. Davis, who feelingly referred to the death since the last outing of Mr. Septimus Vaughan Morgan, who was present on that occasion, and thanked the firm for their hospitality and kindness. The Chairman (Mr. Penry Vaughan Morgan) then interested the company with a reminiscent speech, and welcomed those who had joined the staffs since last year's outing. At his suggestion, a telegram of sympathy was sent to one of the lady clerks, who could not be present owing to illness. After luncheon the party split up, some of the more energetic members walking to Beachy Head, and enjoying an hour or more there; others went "part of the way," and decided to "sit out" the remainder. Some of the seniors spent the afternoon on the pier and amused themselves in various ways, all feeling as young as the youngest. On returning to the hotel tea was served, and at its conclusion a pleasant diversion was caused by the ladies drawing for prizes which had been provided by heads of departments. After tea there was time for another walk before leaving by the 7.45 train.

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# WESTMINSTER WISDOM.

**The Week in Parliament.**

### The Chancellor of the Duchy.

The continued absence of the Chancellor of the Duchy (Mr. Masterman) from the House of Commons—due to electoral vicissitudes—is again being brought to the notice of the Prime Minister from the point of view that there is now no Minister of Cabinet rank responsible to the House for all questions relating to National Health Insurance.

### Dental Treatment.

In the House of Commons on Tuesday, Mr. Astor put further questions to the President of the Board of Education regarding the dental treatment of school-children, and Mr. Pease said, among other things, "the dental treatment of school-children should be conservative in character, and accordingly the bulk of the treatment work should be by filling rather than by extraction."

### Ireland and Tuberculosis.

The Chancellor of the Exchequer announced on June 10 that the Irish share of the grants for tuberculosis, nursing, and pathological laboratories will be nine-hundredths of the total grants for the United Kingdom. The provisional figures as to the Insurance grants have been reached by dividing the total grant for the United Kingdom between Great Britain and Ireland in the ratio of the number of insured persons.

### The Patent Medicine Inquiry.

After a prolonged delay, the Select Committee on Patent Medicines was re-set up in the House of Commons on June 10, the formal resolution being in the following terms:

That a Select Committee be appointed to consider and inquire into the question of the sale of patent and proprietary medicines and medical preparations and appliances, and advertisements relating thereto, and to report what amendments, if any, in the law are necessary or desirable:

That Mr. Charles Bathurst, Mr. Cawley, Dr. Chapple, Sir Henry Dalziel, Mr. Hayden, Mr. Ingleby, Mr. Glyn-Jones, Mr. Haydn Jones, Mr. Lawson, Mr. Lynch, Sir Philip Magnus, Mr. Newton, Sir Henry Norman, Mr. O'Grady, and Mr. Hill-Wood be members of the Committee:

That the Committee have power to send for persons, papers, and records, and to order analyses:

That five be the quorum.

It will be observed (writes our Parliamentary correspondent) that there has been no change in the *personnel* of the Committee. It was stated some time ago in this column that it was not the intention of the Whips to reappoint the Committee until Sir Henry Norman, the Chairman, who has been busy in other directions, was prepared to submit to his colleagues the terms of his draft report. It follows, therefore, that, as the Committee has now been set up again, the draft report is now ready, and that the Committee will reassemble at an early date to consider its terms. One at least of the members of the Committee—Mr. J. O'Grady—will be unable to take part in the final deliberations. The hon. member has been ill for the greater part of the present Session, and it was only with the greatest difficulty—in fact by coming down to the House on crutches—that he took part in the recent division on the third reading of the Government of Ireland Bill. It is impossible, of course, that any legislation will result from the deliberations of the Committees during the present Session, but a mass of valuable testimony has been adduced which, there is little doubt, will be utilised in some future Session.

### Milk and Dairies Bill.

Mr. W. S. Glyn-Jones, M.P., took part in the debate on the Government Milk and Dairies Bill, which came on for second reading in the House of Commons on Tuesday. The hon. member criticised the Bill generally, and in the course of his remarks said:

"There is one very curious matter about the form of this Bill. We seem now to be legislating by schedule. The second schedule of this Bill consists of six paragraphs amending the Sale of Food and Drugs Act. Why could not these paragraphs have been clauses in the Bill? They are all provisions, and most important provisions, too, because they provide a very important alteration in the law. One of the defects of the last Bill was that it did away entirely with the warranty defence. I think one of the good features of this Bill is that it provides better means of getting at the real culprit than have existed in the past. Authorities have been a great deal too ready to take the easiest course to lay their hands on the first man they could get hold of generally the retail dealer and in some way or other secure a conviction against him. That has led to an abuse of the warranty defence. Speaking as a member of a local authority which has to deal with the administration of the Act, I am bound to say that some change of the law is necessary in regard to the warranty defence. This schedule—I do not know why it should be a schedule provides a remedy which will not work."

In the course of his reply Mr. Herbert Samuel said the member for Stepney (Mr. W. S. Glyn-Jones) made some criticism as to the method suggested in the second schedule for arriving at the really guilty person by tracing the milk back from point to point and taking samples at various points in its career from the cow to the consumer. The methods which have been adopted in the second schedule are those which are now in force in Manchester with great success. There the law is very efficiently administered, and the utmost pains are taken to secure that no person who is readily accessible, but the really guilty person, shall be proceeded against and punished for offences against the law.

The Bill was read a second time and referred to a Standing Committee.

### Panel Chemists' Accounts.

The House of Commons reassembled on Tuesday June 9, after the Whitsun holidays, and

Mr. Godfrey Locker-Lampson asked the hon. member for St. George's:

What is the approximate proportion of Insurance Committees that have found an increase in the chemists' accounts in the quarter ended April 1914 as compared with the same quarter of 1913?—The desired information can only be obtained by means of a special return from all the 198 Insurance Committees in Great Britain, which the Minister (Mr. Masterman) does not feel justified in requiring.

West Hartlepool chemists have been paid only 70 per cent. of their accounts for the quarter ended April 1914. How many more Insurance Committees show a similar state of affairs?—Mr. Masterman has already explained that the quarterly payments to chemists cannot be regarded as in settlement of the quarter's accounts, but are in the nature of advances on account of the sums due to them under their agreements after the close of the year. The information asked for can only be obtained by means of a special return from each Insurance Committee in Great Britain.—Replying to a further question, Mr. Benn said the chemists will be paid in accordance with the terms of the agreement which they have with the Insurance Commissioners.

The Pharmaceutical Society has had a meeting about the deficiency in Lancashire. Could Mr. Benn make any announcement as to the payment of chemists' accounts?—The hon. member is misinformed. The conference in question was convened to consider the most economical method of carrying out the necessary administrative work in connection with the scrutiny of prescriptions.

The position of panel chemists in Scotland was the subject of another question by Mr. Locker-Lampson on Wednesday. Mr. Benn assured him that the Scottish Commissioners have received no general representations as to going off the panel. Only two Pharmaceutical Committees have communicated with the Insurance Commissioners. Scottish accounts will be dealt with in exactly the same manner as the drug accounts in other parts of the country.

Mr. Locker-Lampson wanted to know how many Insurance Committees have paid only 90 per cent. of last quarter's accounts, and Mr. Benn, having given his usual reply on Wednesday.

Mr. Cassel asked whether the hon. gentleman could give any assurance that the chemists would ultimately be paid their balance in full.

Mr. Benn replied that the chemists will be paid in accordance with the terms of the agreement into which they had voluntarily entered with the Insurance Commissioners.

Mr. Cassel asked whether the hon. gentleman could not say whether they would be paid for the drugs supplied.

Mr Benn said the hon. gentleman is aware of the agreement, and that will be adhered to.

Mr. Locker-Lampson asked whether the Birmingham Chemists' Committee had only a balance of 400*l.* with which to pay a balance of 5,000*l.*

Mr. Benn said that if the hon. member would put the figures down he would have them examined.

Mr. Worthington Evans inquired whether it is not the fact that in some cases the chemists have only received 17*s.* or 18*s.* in the pound for work done and drugs supplied.

Mr. Benn said he could not reply to a general question of that kind.

Mr. Worthington Evans: Is it not sufficiently precise to say 17*s* or 18*s.* in the pound?

Mr. Benn: The hon. member had better put down the case he has in mind.

The Marquess of Tullibardine asked a question in regard to the Aberdeen chemists, and Mr. Benn replied that the case of the Aberdeen Pharmaceutical Committee is one of the cases to which he referred in his reply to the hon. member for Salisbury (Mr. Locker-Lampson).

## ASSOCIATION AFFAIRS.

**Cambridge.**—The local Pharmaceutical Association met at Mr. Church's house, 18 St. Andrew's Street, on Friday, June 5, Mr. J. Evans (President) in the chair. A most interesting and instructive evening was spent in framing answers to Mr. E. S. Peck's Conference paper upon "The Uniformity in Methods of Dispensing." All present joined in the discussion, and many difficulties and problems were considered. A report of the meeting of the Pharmaceutical Committee held on the previous Wednesday was given by the Chairman of the Committee (Mr. E. S. Peck). It was announced that the examination for juniors would be held on Wednesday, June 17.

**Croydon.**—An extra meeting of the Croydon Pharmacists' Association on June 3 at the Café Royal, North End, took the form of a supper, presided over by Mr. J. Shaw. After the meal, Mr. Shaw presented, on behalf of the Association, a marble clock to Mr. R. Lloyd Griffiths, and a half-hunter watch to Mr. Dickinson. Mr. Shaw referred to the valuable services rendered to the Association during the past two years by Mr. Griffiths and Mr. Dickinson, especially with regard to their work as members of the Insurance Committee. Mr. Griffiths and Dickinson, in reply, thanked the Association for their kindness.

**Dorset.**—A meeting of the Dorset County Pharmaceutical Association was held at the Crown Hotel, Weymouth, on June 3, and was well attended. Mr. H. Ayre (Poole), Vice-President, was in the chair. Mr. Simmonds (Portland) brought up the question of membership of the Proprietary Articles Trade Association; he considered that every chemist in business should subscribe, having regard to the extra profit resulting from the existence of the Association. The Insurance Commissioners' draft model scheme for the constitution of Pharmaceutical Committees was adopted, and Mr. Woolcock was nominated as the presiding officer. The list of local candidates was drawn up, so as to avoid an election. The Hon. Secretary (Mr. J. W. Cussons) reported that the number of Insurance prescriptions dispensed in the county for the first quarter of 1914 was 30,669, value 989*l.* 12*s.* 10*d.*, compared with 24,112, value 674*l.* 9*s.* 8*d.*, for the corresponding quarter of last year. Mr. J. W. Cussons was nominated to represent the Association at the conference of Local Associations delegates to be held in London on July 15. A discussion on the Drug Tariff for next year's agreement then took place, and eventually the whole matter was left in the hands of the Association's Insurance Committee at present. Mr. Hancock (Weymouth) introduced a discussion on "Ucal," in which several members took part.

**Fifeshire.**—The County Pharmaceutical Association met at Thornton on Wednesday, June 10, Mr. David Storrar (President) in the chair. In presenting the Secretary's and Treasurer's report, Mr. Charles Stewart (Kirkcaldy) briefly reviewed the work of the past session, which was chiefly concerned with Insurance dispensing business. The hope was expressed that the Pharmaceutical Committees might be better able than hitherto to safeguard the interests of chemists; but, along with this, it was reported that joint meetings with the local Panel Committees had not been very successful in curtailing the ordering of proprietaries and expensive drugs. The financial statement showed a balance in hand of 3*l.* 17*s.* 9*d.* The following office-bearers were appointed: *President*, Mr. Thomas Yule (Cowdenbeath); *Vice-President*, Mr. A. Hogg (Leven); *Secretary and Treasurer*, Mr. Charles Stewart (Kirkcaldy); *Council*, Messrs. D. Gilmour, J. A. Seath, W. Anderson, Burman, Bissett, Leadbetter, Carmichael, Hughes, and Robertson. Mr. Yule, in accepting office, proposed a hearty vote of thanks to Mr. Storrar for his work, and this was accorded with acclamation. In thanking the members for the compliment, Mr. Storrar impressed upon them the necessity for concentrating their attention on the proposals for united action by the General Council of Panel Chemists, and strongly urged them to give the Council their warmest support in their endeavours to secure better terms for the Scottish chemists. The Secretary placed before the meeting communications from Mr. J. Rutherford Hill, giving the latest particulars of the dealings of the Council with the Commissioners. The Association, on Mr. Storrar's motion, approved of the steps taken by the Council; and it was also agreed to contribute 1*l.* 1*s.* towards the funds of the Council. A motion was also carried requesting the Council to endeavour to secure a proscribed list of proprietaries and expensive drugs to be binding over the whole of Scotland.

**Great Yarmouth.**—The monthly meeting of the Great Yarmouth Pharmaceutical Association was held on June 4, Mr. A. E. Richmond in the chair. There were also present five members and Mr. J. Shearman (Hon. Secretary). A letter from Mr. W. Nightingale thanked the Association for subscription to the local advertising fund. Potter Heigham was recommended by the committee for the outing on June 25, with motor-launch in the afternoon, and tea at the Bridge Hotel. The meeting approved these arrangements.

**Grimsby.**—A combined meeting of the Council of the Grimsby Pharmacists' Association and the Grimsby Pharmaceutical Committee was held at the Oberon Hotel on June 2. Mr. T. O. Sneath occupied the chair, and the two Committees were fully represented. The Secretary explained that as this would be the last meeting of the Pharmaceutical Committee it was their duty to submit proposals for the election of the Pharmaceutical Committee to take office after July 15. A model scheme as suggested by the Commissioners was submitted, but as any amended scheme must be sent to the Commissioners for their approval before June 8 it must be drafted that evening. The Secretary read a letter from the President of the Pharmaceutical Society asking that the model scheme be adopted, and that the returning officer should be the Secretary of the Pharmaceutical Society. It was decided that this course be adopted. The questions on dispensing ethics, submitted by Mr. Peck on behalf of the British Pharmaceutical Conference, were left to Mr. R. C. Johnson to answer.

**London (W.).**—The following is the list of officers and committee of the Western Pharmacists' Association for session 1914-15: *President*, Mr. A. R. Melhuish; *Vice-President*, Mr. R. E. Lownsbrough; *Hon. Treasurer*, Mr. H. R. Procter; *Hon. Secretaries*, (Literary and Financial) Mr. W. E. D. Shirtliff, 66 Goldhawk Road, Shepherd's Bush, W.; (Social) Mr. A. Latreille, 48 Baker Street, W.; *Members of Committee*, Messrs. C. T. Allen, J. Alban Atkin, J. T. Barrett, W. Browne, C. Brooks, L. J. Garner, W. F. Gulliver, J. D. Marshall, E. White, F.I.C., A. Wigginton, and W. Wilkinson; *Auditors*, Messrs. N. H. Schollar and J. P. Ellerington; representatives at the British Pharmaceutical Conference at Chester, Messrs. W. Browne, W. F. Gulliver, J. D. Marshall, and H. R. Procter.

**Rontgen Society.**—The annual general meeting was held in the Institute of Electrical Engineering, Victoria Embankment, London, W.C., on June 9, the President (Professor A. W. Porter, F.R.S.) in the chair. The Secretary (Dr. Robert Knox) read the annual report, which stated that the meetings had indicated a tendency towards purely physical work, but it is not to be assumed that practical work had been neglected, as a report on the work to be issued shortly will show. The Treasurer reported that the financial position of the Society continues to be satisfactory. The reports were adopted, and office-bearers for the ensuing year were then appointed, the new President being Sir A. Pearce Gould, F.R.C.S., Dr. Knox being re-appointed Secretary. The President congratulated the Society on its new President, and Sir Alfred Gould, in replying, returned thanks for the distinguished honour conferred upon him. The meeting then resolved itself into an ordinary meeting, and several papers were contributed. Dr. Rodman showed several beautiful slides of flowers in their natural colours and of shells showing how *x* rays may be made use of in photographing shells without the necessity of cutting sections. There was also a display of electrical apparatus and photographs.

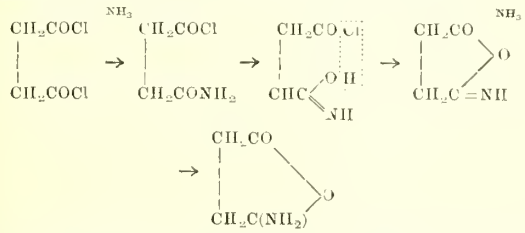
**Women Pharmacists.**—Miss E. K. Hughes, Hon. Secretary of the Association of Women Pharmacists, informs us that as the number of nominations for members of committee did not exceed the number of vacancies, there will be no election this year.

# CHEMICAL SOCIETY.

THE first paper read at the ordinary scientific meeting held at Burlington House, London, W., on June 4, was by a pharmacist, Dr. G. F. Morrell. It consisted of Part I. of

STUDIES IN THE SUCCINIC-ACID SERIES,

and related to the constitution of the chlorides of succinic acid and methyl succinic acid. Dr. Morrell said the research arose incidentally in undertaking to prepare anilides by an indirect method. He found that succinyl chloride condenses with aniline to give the normal anilide, but with ammonia 80 per cent. of the product is the asymmetric amide, while with methylamine 18 per cent. is the normal derivative, and the rest probably asymmetric. The author discredited Auger's suggestion that succinyl chloride is a tautomeric mixture, and gave the following as the probable course of the reaction with ammonia which yielded the asymmetric amide :



The intermediate imide had been isolated in the case of the reaction between methyl succinyl chloride and ammonia. It was accordingly concluded that the chlorides of succinic and methyl succinic acids are symmetrical and perfectly normal.

Drs. Cain, Lowry, and the Chairman (Professor W. H. Perkin) raised points for discussion. Dr. Morrell, in replying, said the normal reaction with aniline might be due to the instability of aniline hydrochloride as compared with ammonium chloride.

The second communication, by Dr. H. F. Coward and Mr. F. Brinsley, was of much greater importance than its title—

DILUTION-LIMITS OF INFLAMMABILITY OF GASEOUS MIXTURES

—would lead one to suppose. Incidentally, the authors made some pretty experiments in bulky glass apparatus, which must have involved considerable trouble in bringing from Manchester. Dr. Coward, who read the paper, first defined dilution-limit of inflammability of gaseous mixtures as "the smallest amount of gas which renders another gas inflammable *per se*." Tables of the dilution-limits for hydrogen in air showed that these were recorded variously from 4.8 to 9.8 per cent., and for hydrogen and oxygen from 4.7 to 13.15 per cent., Eitner alone of the various authorities drawing a distinction between upward (4.5) and downward (8.5) limits. In following up and confirming Eitner's observations the authors noticed that small changes of pressure affected the result, and adopted wider tubes, including one 6 ft. long and a square foot in section, made of two sheets of glass fitted into wooden sides. Criteria were given showing propagation is possible only in an upward direction at the dilution-limit. With this latter apparatus the dilution-limit of inflammability for hydrogen in air was brought down to 4.2. The corresponding limit for carbon monoxide in air was 12.5, and for methane in air 5.3. The work involved a definition being propounded for the first time : "A gas or mixture of gases being only 'inflammable' if it is capable of propagating flame indefinitely, independent of the size or shape of the containing vessel and the size of spark." Some beautiful experiments in 10-litre glass jars, containing mixtures of hydrogen and air and carbon monoxide and air near their dilution-limits, illustrated how, when a single spark was passed, the flame slowly travelled as a vortex ring to the top of the jar, where it broke up. With a series of sparks a fountain of flame resulted, owing to later rings travelling so quickly on the heels of the first. The authors with a mixture of air containing 4.4 per cent. of hydrogen in a 15-ft. tube had succeeded in getting a vortex ring to travel 14 ft., and it might reasonably be said it would propagate itself upwards in the mixture for ever. The mass of hydrogen burnt by a single sparking in a 4-per-cent. mixture is only one-tenth of that present, but the proportion increases on a gradual curve, the whole being burnt in a 10-per-cent. mixture.

Dr. Bone, in referring to the importance of the work in connection with safety in mines, accepted the definition of inflammability, but pointed out that ignition and inflammability are not the same thing. Professor Thornton finds that ignition is not merely a thermal phenomenon, but that ignition is preceded by ionisation, the energy required on sparking from an alternating current being fifty times that from a direct current. It was a question of how far "ignition" must be put side by side with inflammability. Drs. A. Scott, M. O. Forster, and the President joined in the discussion. Dr. Coward agreed that there may be dangerous flashes in mines in gases which are below the dilution-limits. The last paper was by Professor W. A. Bone, on

THE THERMAL DECOMPOSITION OF METHYL ALCOHOL.

This showed that at lower temperatures—about 650°—methyl alcohol breaks up into $CH_2$ : and water to the extent of 20 to 30 per cent., and the remainder into formaldehyde and hydrogen. The hydrogen and the methylene radicle unite to form methane, but evidence had been obtained of the separate existence of the methylene group. At 1,000° 95 per cent. of the decomposition is into formaldehyde and hydrogen, and at higher temperatures the formaldehyde breaks up into carbon monoxide and hydrogen. The decomposition of methyl alcohol is not accompanied by deposition of carbon at any temperature.

# Society of Chemical Industry.

A MEETING of the London Section was held at Burlington House, Piccadilly, London, W., on June 8. Professor W. R. Hodgkinson was in the chair, and after the minutes of the previous meeting had been read and confirmed, the Chairman made a brief reference to the death of Sir Joseph Swan, a past President of the Society. Sir Joseph, he said, was a most efficient President, and did a great deal of work for the Society. The Chairman then announced that owing to the resignation of Mr. J. H. Coste, Mr. T. B. Morson has been appointed Hon. Local Secretary and Treasurer of the Section. Mr. Coste was very heartily thanked for the way he has discharged the duties of the office for several years.

BLEACHING PAPER-PULP.

Mr. Clayton Beadle read a paper by himself and Dr. Stevens on the bleaching of chemical pulp. This was really a contribution to the discussion on a paper by Messrs. Baker and Jennison at the meeting of the Section on March 2 (*C. & D.*, March 7, p. 35). The authors referred to a circulating system of fibre bleaching they had devised in which the bleaching-liquor flowed through the vat from top to bottom and was kept at a temperature of 100° F. by means of live steam. At this temperature it was found that the bleaching is done in an eighth of the time taken at ordinary temperature. In addition the authors have found that a beating-process is advantageous as it promotes contact with air, and they suggest that the carbon dioxide of the air is the cause of the acceleration. Dealing with the relative bleaching efficiency of hypochlorites, it was found that this varies according to the material which is being operated on. One may obtain a certain bleaching effect with a particular fibre, but quite a different one with another material. The amount of chlorine consumed per unit-effect appears favourable in the case of electrolytic bleach, and the authors believe that in this case the undecomposed salt present has a favourable influence. In some cases bleaching is more effective if followed by an acid bath,

and some fibres bleach in an acid solution. Liquefied chlorine in cylinders was tried, and in this case the chlorine showed twice the bleaching efficiency of calcium hypochlorite. Dealing with the question of standards, the authors approved the suggestion of a uniform colour standard. The suggestion to use standard porcelain colours is approved, but it is suggested that instead of specifying a particular tint, a little latitude should be allowed by stating that the colour of the pulp is to be between two of the standard tints. In the discussion which followed, Dr. L. T. Thorne said the influence of atmospheric oxygen is neglected. In the course of experimental work on a large scale which he carried out some years ago, he found that the introduction of oxygen reduces the amount of bleach required by from 33 to 50 per cent. Mr. A. Baker remarked that Mr. Clayton Beadle's experiments seemed to be conducted on rags, and would probably give different results on wood-pulp. He thought the effect of agitation is over-estimated. Referring to a suggestion of Mr. Clayton Beadle's that potassium permanganate is of superior efficiency to hypochlorite, the speaker said that this would involve an extra bath of sulphurous acid, and the cost would be much increased. The paper-maker looks at the matter from a different point of view from the chemist; with the former, cheapness is the aim, and so far nothing cheaper than bleaching-powder has been suggested. He believed that the influence of alkali in the liquor is of considerable importance. Dr. Eric Rideal said after all it is the colour which requires to be bleached, and not the fibre. Colours are of two kinds—basic and acidic—and in the former case it is reasonable to expect that the bleaching would be best effected in an acid bath; in the latter, the basic bleach would be better. In regard to the use of liquid chlorine, a difficulty is found in practice of obtaining a reducing-valve which will withstand the corrosive action of the chlorine. Mr. Clayton Beadle, in reply, emphasised the different effect of agitation and beating; in the latter case the fibre is reduced and bruised. He contended also that bleaching is more than a question of removing colour; there is the purifying effect as well. Then followed a paper by Mr. E. H. Tripp on the

Dickson Centrifuge System of Sewage-treatment.

An observant Scotsman named Alexander Dickson noticed that after the Liffey has passed the place were the effluent from Guinness's Brewery enters, the solid matter in the river floats to the surface. This he found to be due to yeast discharged into the river, and on this fact he based a process of sewage-treatment. Yeast is added to the sewage at a temperature of 94° F., and solid matter separates, containing 80 per cent. of water. Mr. Tripp believes that the effect is due to the anaërobic micro-organisms feeding on the yeast. Starch and dextrose produce the same effect, but are much slower in action. The moisture is removed by drying in a machine such as is used in France for drying small coal for briquettes. A temperature of 450° F. is employed. The dried sludge is sold as a manure. The system is being employed at Dublin The centrifuge method consists in whirling the sewage in a centrifuge, sand on the sides of the basket acting as a filtering-medium. It requires two treatments in the centrifuge, with an intermediate retention in a contact-bed, to produce an effluent sufficiently pure for discharging into rivers. The great increase in the amount of dissolved oxygen is the feature of this process, which is being worked successfully at Winnipeg. In the discussion which followed, Dr. Samuel Rideal freely criticised the process, and on the suggestion of the Chairman further consideration was deferred till the next meeting.

Dr. Eric K. Rideal then read a paper on

The Reduction of Uranium Oxide.

He said that the radium industry is producing much uranium oxide as a by-product. A ton of pitchblende produces 0.2 gram of radium, but a large quantity of uranium oxide. Uranium salts are employed as a yellow glaze in the manufacture of pottery, for the colouring of yellow glass, in photographic work, and as reducing-agents. Uranium metal is employed for hardening steel, the processes being guarded as trade secrets. Uranium carbide is used in the carbon of arc lamps for ultra-violet rays, which it produces. Alloyed with cerium, the metal uranium finds a use in pipe-lighters; the metal is also suitable for use in place of osmium as a catalytic agent in the manufacture of ammonia by the union of nitrogen and hydrogen. Dr. Rideal then explained in detail a research undertaken with a view of reducing the oxide to the metal, various types of electric furnaces being described. The lecturer was thanked for his paper.

## Royal Institution.

Professor W. H. Bragg discoursed, on June 5, on *X Rays and Crystalline Structure*. He began by explaining how it had been possible, by means of crystals, to measure the wave-length of $x$ rays, and conversely this had led up to the question of the structure of crystals. The wave-length of $x$ rays is the smallest physical measurement that has been carried out. Some years ago Lord Rayleigh lectured on a parallel subject which had to do with the various colours given by crystals of potassium chlorate under polarised light. It was shown then that crystals are made up of layers—twinning planes. The colour-effects, due to the reflection from a large number of consecutive layers evenly spaced, depend upon whether the reflected rays from each layer are in step with each other. Only certain wave-lengths are picked out by the crystals and reflected, different distances giving shades of red, blue, or green, as the case may be. The angle of incidence, spacing of the crystals, and wave-length have to do with the phenomenon; and, although $x$ rays differ greatly from light-rays, the same phenomena apply. The wave-lengths of $x$ rays are much shorter than those of light, and the planes which reflect $x$ rays are more minute—they are, in fact, the atoms themselves. The reflection of $x$ rays only takes place when the crystals are set at certain angles. The $x$-ray spectrometer, in which the measurements are made, was then described by means of diagrams. How the discovery was made was next discussed. Schuster first expressed the opinion that $x$ rays are transverse waves in the ether, although no evidence could be advanced that they were reflected, refracted, or showed the other phenomena associated with light. Löwe, of Geneva, in view of the fact that no diffraction-grating could be ruled fine enough for $x$-ray work, suggested the employment of crystals, in which Nature provides a diffraction-grating with millions of lines to the inch. The use of diffraction-gratings for decomposing light was demonstrated, and the different spectra-effects shown when using screens of 17,000 and 170,000 lines to the inch. Crystals of rock salt and sylvine are used in the case of $x$ rays, and the effects obtained by bombarding rhodium, palladium, and platinum were explained by diagrams. Moseley, who has plotted the wave-lengths of $x$ rays when passed though all the known elements, shows that these progress by equal steps from element to element. There are, however, three gaps in the table which have yet to be filled by elements. The last part of the lecture dealt with the peculiarity of the diamond under this experiment, which explains in a measure the unique properties of this gem. In this case the secondary reflection which is present in other elements is missing, a parallel effect with light being obtained by a diffraction-grating where, in the ruling, after two lines there is a space where two lines are missed out. The arrangement of the molecule of the diamond was explained by models. The last point was that no atom has an exact position, as atoms are in rapid motion, which varies according to the temperature.

The Potato as a Remedy.—Messrs. Baillière, Tindall & Cox have published in book-form, at 1s., the article on "The Therapeutic Value of the Potato," contributed to "The Lancet" of April 11 by Heaton C. Howard, L.R.C.P., M.R.C.S., which was referred to in our issue of April 15. The booklet contains some additional matter.

# Insurance Act Dispensing.

**A Weekly Record of events and decisions concerning Chemists' interests in Medical Benefit administration and practice.**

## Drug Fund Deficits.

A pharmaceutical auditor to Insurance Committees for several large county boroughs writes agreeing with our suggestions for substituting definite action for what he calls "the present 'wait patiently and see' policy, which only exasperates out-of-pocket pharmacists, the more when it is coupled with hints from official quarters that if this and that or the other was inquired into and remedial machinery put into operation it would be found that 2*s*. per head was really an ample actuarial estimate." Our correspondent has just completed an exhaustive scrutiny of the prescriptions for an Insurance area where much has been heard lately of the deficiency in the Drug Fund. The report contained, in addition to adjustment of errors in the accounts, detailed information on the following points :

Prescribing of proprietary and expensive articles.
Ordering of large quantities—drugs, dressings, and appliances.
List of above under names of doctors prescribing them.
Average cost per prescription, and average cost per insured person for the borough.
Average cost per prescription written by each doctor.
Average cost per insured person on each doctor's list.

This is believed to be the first instance that a report has been compiled for the purpose of dealing with Drug Fund deficiency in any area containing data clearly indicating the causes of the excessive Drug Fund expenditure, and fully justified the action of the Insurance Committee (on representations made by the doctors and chemists) in instituting the inquiry. Our contributor adds that his experience of Panel and Pharmaceutical Committees is that they are lost for want of definite data relating to prescriptions in their particular areas, without which they cannot devise means for overcoming the deficiency. With facts or causes properly collated, it is possible for them to proceed to remedial measures, but in rejecting the responsibility of initiating and carrying out the necessary inquiry themselves they are creating a barrier of discord between the two Committees, all of which emphasises the necessity of doing something to ascertain the causes of deficiency.

## The Position in Scotland.

A private meeting of the Pharmaceutical Standing Committee on Insurance was held at 36 York Place, Edinburgh, on Friday, June 5. A statement in respect to it appeared in the local Press on Saturday, but on perusing it we find it to be conjectural and based upon facts previously published. The Committee arranged the business for a meeting of the

GENERAL COUNCIL OF PANEL CHEMISTS.

This was held at the same place on Monday, June 8, and an official report is appended :

Mr. J. P. Gilmour presided, and Mr. Thomas Guthrie was in the vice-chair. The meeting was called to consider a letter and accompanying statistics from the Scottish Insurance Commissioners in regard to the stated case for Scottish panel chemists for increased dispensing-fees and a revision of Tariff prices, which raised questions so difficult and grave that the Standing Committee desired to consult the General Council. The Standing Committee also reported the result of a deputation to the Commissioners that morning. The letter from the Commissioners intimated that they had now obtained detailed information with regard to expenditure on drugs and appliances by Insurance Committees in Scotland during 1913, and a report on a special investigation which they had instructed to be made in certain selected areas, with the following result :

In the county areas 752,087 prescription forms had been dispensed at a cost of 29,030*l*. 10*s*. 4*d*. The net provisional Drug Fund was 43,162*l*. 8*s*. 2*d*., and the net provisional Drug and Suspense Fund 57,549*l*. 17*s*. 4*d*. The average cost per prescription form was 9.26*d*., and the average expenditure upon drugs per insured person entitled to receive drugs through a chemist 1*s*. 2.64*d*. In four counties the cost per insured person exceeded 1*s*. 6*d*. In one county it was as low as 7.52*d*.

In the burgh areas 1,663,104 prescription forms were dispensed at a cost of 64,092*l*. 1*s*. 9*d*. The net provisional Drug Fund was 59,525*l*. 11*s*. 11*d*., and the net provisional Drug and Suspense Fund 79,367*l*. 9*s*. 4*d*. The average cost per prescription form was 9.25*d*., and the average cost per insured person 1*s*. 5.81*d*. Nine burghs exceeded 1*s*. 6*d*. and two of these exceeded 2*s*., namely, Aberdeen 2*s*. 1.78*d*. and Dumfries and Maxwelltown 2*s*. 0.38*d*.

In carrying out the obligation to consult panel practitioners as to increased dispensing-fees and revision of Tariff prices an unforeseen legal difficulty had arisen. The Commissioners had been legally advised that, inasmuch as the agreements now subsisting between each practitioner and his Insurance Committee are founded upon the current Drug Tariff, it would be necessary for them to consult and get the consent of each practitioner in the Scottish Insurance service. In carrying out this advice it was found that of 2,711 panel practitioners 257 were in favour of increased dispensing-fees and 622 were in favour of revision of Tariff prices. In some areas practitioners favoured the claim of the chemists, but objected to the Drug Suspense Fund being used to meet the claim. In the absence of anything approaching a consensus of favourable opinion on the part of panel practitioners, and in consequence of the legal obstacle to acting without consent of panel practitioners, the Commissioners expressed regret that they are unable at this juncture to give effect to the increased dispensing-fees and adjustment of Tariff prices proposed in the stated case for Scottish panel chemists. The letter further stated that the Commissioners would assent to payment of a bonus up to 17/24ths of the available Drug Fund in those areas in which the drug accounts for 1914 did not amount to that aggregate. The letter also indicated the very marked increase in the drug accounts for the first quarter of 1914 as compared with the corresponding quarter of 1913. While the total drug account in the counties for the first quarter of 1913 was 6,595*l*., the total for the first quarter of 1914 was 10,111*l*., or an average increase of 53 per cent. In three counties there was a decrease—namely, Dumbarton, Inverness, and Zetland. In the burghs the drug account for the first quarter of 1913 was 15,777*l*., and for the corresponding quarter of 1914 it was 23,074*l*., or an average increase of 46 per cent. In one burgh—Inverness—there was a decrease of 13 per cent.

The letter proceeded to say that these facts indicate need for great care if exhaustion of the Drug Fund and discounting of accounts are to be avoided, and a discussion between the Commissioners and the Standing Committee was suggested, and the Standing Committee accordingly deputed the Chairman and Vice-Chairman and Messrs. Kitchin, Lennox, McNab, McVitae, Simpson, and the Secretary to interview the Commissioners on Monday forenoon. The points chiefly discussed were :

(1) *The alleged legal obstacle* to an alteration of the Tariff conditions during the current year. The deputation argued strongly that the Commission have power, particularly under Regulation 83 (1), to make such alterations, but it was satisfactorily explained that the regulations quoted do not apply to the circumstances under consideration.

(2) *The Risk of Discounting of Chemists' Accounts.*—It was explained that there will be no discounting for 1913 in any area in Scotland except the burgh of Aberdeen, and in that instance it will only amount to a little more than one penny per insured person. It was also explained that if after matters have been fully cleared up any money more than the provisional credit becomes available in any area, that money must be paid to panel chemists, even although they have signed a discharge in full on receipt of the money paid from the provisional credit. The deputation were also encouraged to expect that, if after the machinery provided by the regulations has been fully utilised and a deficit on the Drug Fund still remains, they would have a good case for a successful appeal to the Treasury.

(3) *Checking of Prescriptions.*—The deputation were satisfied that the way had been opened up for an official system of checking prescriptions—a necessity which had been continuously pressed upon the Commissioners.

(4) *Pooling the Funds.*—The deputation strongly pressed the desirability, in the interests of the true principle of Insurance, of uniting the Drug Fund of all the areas in Scotland. This is competent, it was urged, under Section 59 (5) of the principal Act. The Commissioners did not regard such a national unification as coming within the purpose of the section quoted, but they were prepared to consider the uniting of certain local areas.

(5) *Expenses of Pharmaceutical Committees.*—The Commissioners explained that expenses had not been granted yet owing to certain difficult points that have arisen, but instructions will be issued shortly.

(6) *Withdrawal from the Panel.*—The possibility of an extension of time beyond June 11 for giving notice of withdrawal from the panel. The Commissioners explained that they have no jurisdiction to intervene, but will be prepared to advise an extension of one week if chemists in any area desire it.

The communications from the Commissioners and the report of the Standing Committee as to the whole situation gave rise to a prolonged and animated discussion. Ultimately it was moved by Mr. David Gilmour (Dunfermline), seconded by Mr. Findlay Stuart (Broxburn), and unanimously agreed that :

"In all the circumstances the General Council of Panel Chemists (Scotland) resolve to advise panel chemists generally that the only practical line of action which has occurred to the General Council of Panel Chemists is to take advantage of the offer made in the letter of an opportunity for further conference with the Commissioners on the whole matters dealt with in the stated case and in the letters from the Commissioners, particularly the serious risk of discounting suggested, and the necessity for some steps being taken to get clear of this provision in the regulations. With a view to carrying out this line of policy the recommendation of the General Council of Panel Chemists (Scotland) is that panel chemists should continue the existing agreement to the end of the present year, but that an organised campaign should be immediately set about to have objectionable features eliminated and a more satisfactory basis of agreement secured for the new contract for 1915."

It was moved by Mr. J. J. Forbes (Perth), seconded by Mr. Thomas Yule (Cowdenbeath), and unanimously agreed that:

"The General Council of Panel Chemists (Scotland) instruct the Standing Committee to formulate the minimum demands under which they are prepared to advise Scottish panel chemists to continue National Insurance dispensing during 1915, to take such steps as are necessary to bring these demands to the notice of all panel chemists and Pharmaceutical Committees, and to secure their pledge that they will not continue service unless these demands are agreed to, namely—(1) The Scottish Tariff, (2) no discounting, (3) official checking of prescriptions, (4) prompt and full payment of accounts, (5) abolition of the 'floating sixpence'."

Mr. J. R. Reith (Cults) said he would like to take the opinion of the meeting on the following motion:

"That this meeting of the General Council of Panel Chemists recommend the Pharmaceutical Committees throughout Scotland to terminate their agreements with their respective Insurance Committees pending negotiations with the Insurance Commissioners regarding the elimination of the discounting clause for the end of the present agreement and succeeding agreements, and the adoption of the Scottish dispensing-fees."

The motion was seconded by Mr. J. B. McVitae (Glasgow), and on being put to the meeting only the mover and seconder voted for it. On the motion of Mr. John Cruickshank (Aberdeen), a cordial vote of thanks was awarded to the Chairman.

## Notes.

A Book on Medical Benefit.—We have received from the publishers (Sir Isaac Pitman & Sons, Ltd., 1 Amen Corner, London, E.C.) a book on the "National Health Insurance Acts, 1911 and 1913, Medical and Sanatorium Benefit Regulations, etc.," edited by Mr. J. Henry Lloyd for Charts, Ltd. 5½×8. Pp. 232. 5*s.* net. Like Mr. Lloyd's charts, the feature of the work is the methodical arrangement into various sections, of which there are seven in number, such as "Procedure in Disputes," "Panel Arrangements," and "Institutions and Special Arrangements." There is thus brought together all the information included in the Acts of 1911 and 1913, the Medical Benefit Regulations, 1913, and the various memoranda and circulars issued by the Insurance Commissioners, each under its special subject. The source of the information is shown by the use of different types, and tabs indicate the various sections of the work. There are decided advantages in some respects. Although it is useful to have the official memoranda and forms embodied in the same work as the Acts and Regulations, some of these are rather out of date. In particular Form $\frac{43\ (a)}{\text{I.C.}}$, on page 189, has been superseded by the Traveller's Voucher. Also it appears at first sight as if the third and fourth schedules to the medical practitioners' agreements belong to chemists' agreements, and the sixth schedule to the Medical Benefit Regulations relating to inquiries as to efficiency in medical service appears under efficiency of drug-service. On closer examination the reason for this is obvious, but the arrangement might be better. It is also unfortunate that the model chemist's agreement given relates to the comparatively unimportant contractor's agreement used for unqualified persons. A good index is required to make the book more useful.

## Reports from Local Centres.

*With special reference to the supply of medicines and appliances. See also Association Affairs.*

### ENGLAND.

**Birmingham.**—The Insurance Committee has been informed by the Commissioners that the final provisional balance payable to the Drug Fund is 400*l.* The balance required to settle the Birmingham accounts amounts, however, to 5,000*l.* up to the end of 1913. As explained in our issue of March 28, p. 69, the final provisional balance is the minimum amount available to the Committee for the purposes of Medical Benefit during the past year, subject to any further payment which may be made in the event of the credit to the Committee being increased by a share of any further sums debited to societies in respect to any increase in the insured membership of societies shown upon a calculation of their mean membership.

**Blackburn.**—The Insurance Committee on June 9 allowed Mr. Henry Butterfield, 143 Bolton Road, Blackburn, who had ceased business as a chemist and druggist, to withdraw his name from the dispensing panel. Mr. E. W. Walsh, Ph.C., was appointed to check prescriptions dispensed for last quarter at 10*s.* per 1,000, but arrangements for subsequent quarters were deferred. A grant of 30*l.* was made to the Pharmaceutical Committee on account of the administrative expenses.

**Bolton.**—The Town Council have reappointed Alderman Dr. Young and Councillor Percy Knott as members of the Insurance Committee.

**Bury.**—The Insurance Committee had before them on June 2 a report from the Panel Committee stating that the Pharmaceutical Committee have examined the prescriptions for the year 1913 of the value of 1*s.* 3*d.* and over, and have made the following representation to the Panel Committee: "That there is no ground for any charge of excessive prescribing, but that there are many expensive drugs ordered which increase the cost to the Drug Fund, and have recommended the total abolition of proprietary articles, concentrated mixtures, and 'repeat' mixtures." The Panel Committee, while in full sympathy with their desire to limit the cost of prescribing, cannot recommend any such drastic alterations. The occasional use of proprietary articles, etc., of proved value, is not only a benefit to the patients, but might be a saving to the funds. If any practitioners were reported as having made an excessive use of these articles, the Panel Committee would call their attention to the fact. A practitioner whom the Pharmaceutical Committee reported had used an unreasonable number of "repeat" prescriptions had been communicated with, and had expressed regret, stating that he did not know of the arrangement in regard to this practice. Prescriptions for the quarter ended April 11 numbered 24,952, an increase of 3,991, or 14.27 per cent., over the corresponding period last year. These cost 1,028*l.* 14*s.* 2*d.*, an increase of 363*l.* 11*s.* 9*d.*, equal to 35.3 per cent.

**Cambridgeshire.**—The Pharmaceutical Association met on Wednesday, June 3, Mr. E. S. Peck presiding. The official scheme for constitution of Pharmaceutical Committees was approved, and Mr. Woolcock was nominated returning officer. The Secretary (Mr. S. F. Barker) reported that panel chemists dispensed 11,302 prescriptions in the quarter ended April 14, and the amount claimed was 433*l.* 16*s.* 5½*d.*, of which 90 per cent. has been paid. The average price per prescription was 9⅜*d.* The Clerk of the Insurance Committee complained that two chemists had only just presented their accounts, and it was decided that the Secretary be instructed to write them a letter asking them to be more prompt in the future. The question of Sanatorium prescriptions not being properly marked was discussed, and it was decided to take action in the matter.

**Croydon.**—The Insurance Commissioners have agreed to the new arrangement for checking (*C. & D.*, April 18, p. 55), and Mr. Read has been appointed checker, his salary not to exceed 75*l.* per annum. The Panel Committee has reversed its resolutions regarding aqua (*C. & D.*, April 11, p. 52) to the following:

(1) That, as it is a matter of common agreement that certain prescriptions are as well dispensed with ordinary pure water as with distilled water, the Insurance Committee be asked to resolve that certain prescriptions, as set out in the resolution, contained in the local Pharmacopœia be dispensed with ordinary pure water.

(2) That the Insurance Committee be also asked to resolve that no charge shall be allowed for ordinary pure water when used in dispensing any prescription.

The Pharmaceutical Committee has agreed thereto. A report on the past medical year shows that forty-eight chemists received 3,767*l.* 5*s.* 5*d.*, an average of 78*l.* Prescriptions totalled 126,394, the cost averaging 7.15*d.* The Drug Fund amounted to 4,465*l.* 10*s.* 10*d.*, of which 3,810*l.* 6*s.* 8*d.* was expended, leaving 655*l.* 4*s.* 2*d.* for the doctors from the Drug Suspense Fund.

**Eastbourne.**—The cost of prescription-checking is to be borne equally by the Insurance, Panel, and Pharmaceutical Committees.

**Hampshire.**—A report to the Insurance Committee on June 8 showed that chemists' accounts for the first quarter of 1914 amounted to 1,803*l.* 14*s.* 5*d.* on a register of 59,430 insured persons dispensed for by chemists. Immediate payment of 80 per cent. of the accounts as presented has been ordered. The expenses of prescription-checking are to be shared jointly by the Panel, Pharmaceutical, and Insurance Committees at a cost not exceeding 50*l.* each, the arrangements generally to be in the hands of the

Insurance Committee, to whom reports are to be made. A permanent Sub-Committee of six members was appointed, representing the three Committees interested. The Committee agreed to inform a doctor who complained, that a chemist was right in refusing to supply linseed meal, as it is not on the Tariff. Correspondence was read from a chemist inquiring whether the Committee would pay for oxygen supplied to an insured patient. It was resolved that as the oxygen was urgently required the account be paid, but without prejudice to any future action by the Committee. The Panel and Pharmaceutical Committees have been asked to confer and report on the matter.

**Isle of Ely.**—At a meeting of the Panel Committee held at March on May 21, it was resolved to rescind the resolution passed on March 10, to the effect that 1*s.* per 100 insured persons should be deducted from amounts payable by the Insurance Committee to practitioners, and to recommend that a voluntary levy of 1*s.* per 100 insured persons be asked of all panel practitioners, so that the Committee should secure absolute control of its own funds. In reply to a letter from the Isle of Ely Pharmacists' Association, it was resolved to regard sanatogen, vitafer, and saccharin as foods, and not drugs, so that they should not become chargeable under the Drug Tariff.

**Lancashire.**—At the Insurance Committee's last meeting, Mr. Peake, chemist, protested against the supply of "anæsthetic" chloroform. The Chairman said the Tariff mentioned merely chloroform, and it was not quite clear whether this included "anæsthetic" chloroform or not, but the question was for the Commissioners to decide. Any complaint by the chemists should be made to the Commissioners. The Joint Services Sub-Committee reported that a doctor had committed an error of judgment in telling two insured persons that he could not advise them to obtain medicine from chemists, whereupon they obtained medicine from the doctor himself, paying 2*s.* per bottle. The Sub-Committee resolved that the doctor be requested to refund the 3*l.* in one case and 6*s.* in the other, and also to pay to each of the witnesses 5*s.* for expenses in attending to give evidence.

**London.**—At a special emergency meeting of the Pharmaceutical Committee held at Bank Chambers, 329 High Holborn, W.C., on Tuesday, June 2, the official scheme for election was adopted, and Mr. Woolcock nominated as returning officer. The date of meeting of the Drugs and Appliances Sub-Committee being altered to the second Tuesday of each month, owing to internal arrangements of the Insurance Committee, it was agreed that the next meeting of the Pharmaceutical Committee should be postponed until Tuesday, June 16. It was agreed that the representatives of the Pharmaceutical Committee on the Drugs and Appliances Sub-Committee should be present at the full sitting of that Committee.

**Northumberland.**—The Insurance Committee on June 5 were informed by the Clerk that at a meeting on the previous day, attended by the Chairman of the Medical Benefit Sub-Committee and representatives of the Panel and Pharmaceutical Committees, prescriptions issued by certain panel doctors were examined. Those present were of opinion that the large increase in the cost of drugs and appliances for the past quarter, causing a large deficit in the Drug Fund, was mainly due to the following causes: (*a*) Excessive prescribing of the more expensive appliances included in the Tariff; (*b*) excessive prescribing of drugs; (*c*) excessive ordering of partial foods, such as cod-liver oil, malt, and emulsions. The Clerk said he had written to the doctors, drawing attention to the excessive ordering. The Finance Sub-Committee, in its report, pointed out that if the Drug Fund continued to be exceeded there would be no option but to enforce the provisions as to surcharging.

**Rochdale.**—At the meeting of the Insurance Committee on June 8 it was stated that the new provisional credits for the year ended January 11 showed that the amount credited to meet chemists' bills is 3,861*l.* 18*s.* 1*d.* The chemists' accounts amount to 4,100*l.* 13*s.* 9*d.*, so there is a deficiency of 238*l.* 15*s.* 8*d.* The advances on account already paid are 3,814*l.* 3*s.* 11*d.* (98.76 per cent. of the sum which would eventually be paid), so that chemists would receive another 1.24 per cent. Mr. R. S. Close, jun., called attention to a joint meeting of the Medical Benefit Sub-Committee and the Panel Committee as to prescriptions and chemists' accounts. The doctors gave as one reason for the tremendous increase in the accounts the greater amount of sickness. They pointed out that they could not very well reduce the number of prescriptions, because if a man went to a doctor he was not satisfied unless a prescription was given to him, so that they had no control there. The medical men generally were of opinion that the 2*s.* already put into the Drug Fund was sufficient for the purpose, and they thought there was reasonable opportunity of considerably reducing the cost of each individual prescription. Before the doctors can do much in that direction the general public must be fair. They now went to doctors in cases where before they would buy a pennyworth of salts.

**Sheffield.**—At the Insurance Committee's meeting on May 10, the name of Mr. A. R. Powell, 125 Upwell Street, Grimesthorpe, was added to the dispensing panel. The Panel Committee's recommendation that a doctor who had ordered a Phylacogen be surcharged was adopted, and the Panel Committee asked to investigate certain other cases of prescribing of Phylacogens. Communications were read from the Panel and Pharmaceutical Committees in reference to the checking of chemists' accounts. The Panel Committee is willing to accept as correct accounts checked by the official pharmacist, this agreement to be ratified annually. The Pharmaceutical Committee does not wish to undertake detailed checking, but is desirous of having an opportunity of inspecting them before the final deductions are made at the end of the medical year. A grant of 41*l.* was made, subject to approval by the Insurance Commissioners, to the Pharmaceutical Committee for administrative expenses of the Committee from January 11 to July 11, this being approximately at the rate of ⅛*d.* per insured person. The Pharmaceutical Committee asked that the difference between 60 per cent. deducted from their accounts for the month ended April 11 and 75 per cent. usually paid on account should be paid at once, instead of being left for adjustment until the year-end. The Clerk was instructed to inform the Pharmaceutical Committee that 60-per-cent. payment exhausted the limit of 90 per cent. of the estimated funds available, and that therefore the Committee is not entitled to make any further payment at present. The following payments were ordered to be made: For emergency dispensing for the quarter ended April 11 (75 per cent. of accounts rendered), 1*l.* 15*s.* 6*d.*; to chemists (75 per cent. of the accounts for month ended May 11), 1,253*l.* 7*s.*; further payment on account for year ended January 11, 1914 (a further 10 per cent. of accounts rendered), 1,600*l.* 19*s.* Mr. H. Antcliffe (Secretary to the Pharmaceutical Committee) had perforce to write correcting the "Telegraph's" statement that chemists, like doctors, were "doing well" out of Insurance work, and that "Sheffield is no worse off than other parts of the country."

**Staffs.**—It was reported to the Staffs Insurance Committee on June 6 that the chemists' accounts rendered for the past year had greatly increased, and the Clerk suggested the advisability of retaining in hand a larger percentage pending the examination of the accounts. It was decided that the chemists be paid 80 per cent. of their accounts for the quarter ended April 11, 1914, instead of the 90 per cent. proposed at the last meeting.

**Stoke.**—The Insurance Committee met on June 4, when Mr. Edmund Jones raised the question of payment of chemists' accounts. The Clerk, in replying, said he had received a very lengthy letter from the Commissioners, in which they deal with the revised adjustments of the Medical Benefit Fund, but the particulars were not sufficient to enable him to work out the various proportions for Stoke, and he would be obliged to consult with the Commissioners' financial experts again. It will be Friday or Saturday of next week before the final adjustment can be made. Stoke chemists have received 80 per cent. of last year's accounts, and at the close of the meeting the Chairman (Alderman Brookhouse) said the final payment would be at the outside another 5 per cent. The payments to chemists confirmed were: For the year January 14, 1913, to January 11, 1914, 8,293*l.* 19*s.* 8*d.*; for the quarter January 11, 1914, to April 11, 1914, 1,990*l.* 7*s.* 10*d.*—The "Staffordshire Sentinel," in commenting upon the prospect of chemists having 15 or 16 per cent. taken off their Insurance Act accounts, amounting to something like 1,600*l.*, says there appears to be some disposition to lay part of the responsibility upon the doctors, who adopted the "attendance" system of charging for their services during the first quarter. One calculation is that 1,000*l.* worth of more or less unnecessary medicine was thus levied upon the chemists, this 1,000*l.* largely making up the portion of the chemists' bills still unpaid. The demands upon the Drug Fund have been more moderate since the medical profession adopted the *per capita* system. Our contemporary adds: "We quite expect the doctors to resent the suggestion of excessive visiting during the first quarter as a wicked libel upon them, and we offer no personal opinion on the point, but it is a suggestion that comes from the chemists, and the chemists and the doctors must fight it out between them, if they wish to do so."

**Sussex (East).**—The Insurance Committee on June 2 were informed that payments to chemists had been made of 1,175*l.* 15*s.* in respect to the current year's accounts.

The Medical Benefit Sub-Committee reported that the checking of the seven chemists' accounts selected as samples for the quarter ended January 11, 1914, had been completed. These were as delivered for 4,923 prescriptions, value 169*l.* 12*s.* 9*d.*; the accounts as checked for 4,995 prescriptions, amounting in value to 164*l.* 2*s.* 6*d.* Deductions amounting to 5*l.* 11*s.* 2*d.* were made from five claims, and an addition of 11*d.* was made to one claim. The largest deduction from any one claim was 3*l.* 9*s.* 10*d.* The average price per prescription was 7.8*d.* In regard to arrangements to be made for checking chemists' claims for the quarter ended April 11, it was resolved "that, having regard to the introduction of the new Tariff and other circumstances, the Insurance Committee be recommended to arrange with Mr. F. R. Adams to check the whole of the chemists' accounts" on the same terms as before (1*s.* per 100). A letter from the Insurance Commissioners (England), stated that in the absence of special circumstances prevailing in the area of the Committee they were not prepared to approve the proposed price of 1*d.* per doz. for pil. ferri. The Clerk had accordingly notified chemists that the charge for pil. ferri should be entered in the Drug Tariff recently issued as ½*d.* per doz. This action was confirmed. Chemists protested against supplying, under Sanatorium Benefit, cod-liver oil at 1*s.* per pint bottle, and the Clerk's inquiries have resulted in the price being increased to 1*s.* 3*d.*

**West Bromwich.**—The Pharmaceutical Committee has adopted the draft regulations for the new Pharmaceutical Committee, and selected Mr. Uglow Woolcock as returning officer. The Committee suggests that the present members should be re-elected—viz., Messrs. Allen, Barnes, Beattie, Kemsey-Bourne, H. Edgson, Lock, and H. Osborne (for panel chemists), and Mr. F. Evans (for dressings and appliances contractors). Messrs. Allen and Kemsey-Bourne were chosen to interview the Panel Committee's Secretary with regard to the allowance for emergency medicines.—The Clerk to the Insurance Committee has posted to each panel chemist a list of formulæ, which, together with the Birmingham Health Insurance Formulary, will form the West Bromwich Formulary until the local Sub-Committee formed for the purpose has got together a purely local Formulary. Accompanying these formulæ is a page and a half of "important" information for the chemists, to the effect that (1) "Rep. mist." is to be entirely abolished; (2) aqua in the Formulary means aq. font.; (3) accounts for emergency dressings supplied to doctors to be rendered on separate forms with prescriptions attached; (4) in dispensing, the numbers of Formulary preparations to be indicated on labels; ordinary prescriptions containing only two or three ingredients, contents to be indicated on label. Doctors to be supplied with cards for writing prescriptions of any length, to be held by the patient and produced for reference when necessary; (5) no payment will be made to chemists on account of prescriptions not conforming with these instructions; (6) chemists and doctors are asked to assist in economising—*e.g.*, by ½-oz. doses—and chemists to report cases of extravagant prescribing and of patients obtaining medicines too frequently.

**West Suffolk.**—At a meeting of the Panel Committee held on May 19, the Sub-Committee appointed to check chemists' accounts reported that the average cost of prescriptions for the past five quarters was 8⅝*d.* The Committee decided to ask the Clerk to the Insurance Committee for the following figures, with a view of checking extravagance: (1) Approximate number of persons in receipt of Medical Benefit during each of the past five quarters; (2) approximate number of persons on each practitioner's list for quarter ended April 11, 1914; (3) total number of prescriptions issued by each practitioner during the quarter ended April 11; (4) average cost per prescription in the case of each practitioner.

### SCOTLAND.

**Dundee.**—Payment has been made of the balance outstanding for drugs, etc., supplied during the year which ended on January 11, and the accounts rendered for one month's supplies up to May 11 have been paid, less 10 per cent. Chemists have been notified that in future payment will not be made for any "stock prescriptions" (*i.e.*, bandages and similar supplies for medical men) which have not been endorsed by the Burgh Insurance Committee and the Dundee Pharmaceutical Committee.

**Edinburgh.**—The Burgh Panel Committee have issued a circular to the Insurance practitioners in Edinburgh, in which the following occur:

"REPEAT FORMS.—The chemists have received instructions not to dispense 'Repeat Forms' in the future for cogent reasons. Each repeat prescription must be written in full, just as in the case of first prescriptions

"SECRET FORMULÆ.—It has been reported to the Committee that use is being made of secret formulæ, and as this practice abolishes the free choice of chemist by insured persons it is contrary to the provisions of the Act. The Committee would therefore appeal to Insurance practitioners to avoid this offence.

The Committee have approved of the following recommendation of the Sub-Committee appointed to consider the Drug Tariff:

| | Dispensing-fee. |
|---|---|
| 1. All liquid preparations of any kind or size ... ... | 3*d.* |
| 2. Pills, capsules, tablets, etc: Proposed tariff agreed to. | |
| 3. Bulk powders in any size ... ... ... ... ... | 2*d.* |
| Rest of powder Tariff to remain as proposed for 1914-1915. | |
| 4. Tariff ointments, pastes, and confections ... ... | 2*d.* |
| Ointments, pastes, and confections other than on Tariff list ... ... ... ... ... ... ... | 2*d.* |
| 5. Suppositories, pessaries, and bougies: Proposed Tariff agreed to. | |
| 6. Plasters (except mustard-leaves, which are to be supplied at 1½*d.* each) ... ... ... ... ... | 4*d.* |

VACCINES AND SERUMS.—It was agreed that nasal catarrh vaccine be added to the list already drawn up.

**Leith.**—The Insurance Commissioners last week paid a bonus amounting to about 10 per cent. to Leith panel chemists.

### WALES.

**Prescription Costs.**—The following is a comparison of average prices, in pence, of prescriptions in four Welsh Insurance areas:

| Quarter ... ... ... | 3rd | 4th | 5th | 6th |
|---|---|---|---|---|
| Swansea ... ... ... ... ... ... | 7 | 7½ | 7¾ | — |
| Monmouthshire ... ... ... ... | 5.8 | 8.06 | 8.36 | 8.71 |
| Cardiff ... ... ... ... ... ... | | 7.7 for 9 months | | |
| Glamorgan ... ... ... ... ... | 7.46 | 8.13 | 8.39 | — |

**Glamorgan.**—The mean number of insured persons in 1913 was 240,549, the proportion of women to men being 1 to 7, the Drug and Drug Suspense account being 22,800*l.* Chemists' bills amounted to 15,715*l.* for 465,153 prescriptions, and have been paid in full. Doctors dispensed for 37,500 insured persons. The following notes are incorporated in the Glamorgan Tariff:

No fees for copying, as all prescriptions must be written in duplicate, in full.

Tap-water to be used unless the contrary is stated.

Secret remedies will not be paid for. No proprietary medicines of known composition that can be prescribed under their non-proprietary names will be paid for. If a particular manufacturer's medicine is prescribed it may be supplied, but subject to the Committee's right to declare the prescription extravagant and to surcharge the doctor prescribing it.

## Sports.

THE recently formed cricket club in connection with Messrs. Philip Harris & Co., Ltd., Birmingham, opened the season on Saturday, June 6, when an eleven of single men (captained by Mr. G. Leighton) were opposed by married men, under the captaincy of Mr. G. Clark. The "Singles" were victorious by 58 runs (Byrne 14, Dunn 12, and Leighton 11) to 42 for the married men (Mr. Newman 15).

THE SHEFFIELD PHARMACY CRICKET CLUB have elected Mr. Knowles, Woodseats, as President, with Mr. Massey 265 Glossop Road, Captain and Secretary. They have secured for the season the Atlas and Norfolk Grounds, Roe Woods, where they will be pleased to see any pharmacist when home matches are being played. Last week's match with Meersbrook ended in an exciting win for the chemists by 1 run (117 against 118).

ALLENBURYS C.C. *v.* MAY & BAKER C.C. Chemists' and Druggists' League match, played at Raynes Park on Saturday, June 6, resulted in a win for the Allenburys. Scores: Allenburys, 139 for four wickets (declared); May & Baker, 32. For the Allenburys, Blick (41), Stokes (35), and Arnold (29) batted well, and G. Porter bowled in fine style, taking five wickets for 11 runs. This week the "Allenburys B.G." entertain their friends, the Allenburys "Ware" C.C., on Wadham Lodge.

THE annual picnic of the Nottingham Pharmaceutical Association, to be held on July 2, will take the form of a motor trip to Belvoir Castle. The party will be shown over the castle and grounds, and may wander in the lovely woods, which extend for miles around. Tea will be served at the Peacock Hotel, and afterwards those who wish may have an opportunity of visiting the kennels, which are not usually shown to visitors.

# TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

**42 Cannon Street, E.C., June 11, 6.30 p.m.**

THERE has been a little more life in the markets this week. Tartaric acid, cream of tartar, and citric acid have all been well taken up. Sulphate of quinine has been nibbled at, and some quiet buying has been going on consequent upon the expectation that the makers are to advance their prices. The amalgamation of oil-of-lemon interests has not gathered all into the fold, but sufficient have come in, not only to steady the market, but to raise the price a little. Whether it is strong enough to hold the oil up until a better demand sets in remains to be seen. Malta orange-peel is in very short supply, and will continue so until the new crop comes in. The nux vomica scarcity is so aggravated that the makers of strychnine have raised their prices by 15 per cent., and are said to be buyers. German makers of chrysophanic acid quote higher prices than the British makers.

To-day first-hand goods were offered at the drug-auctions, which are reported on p. 60. The following are the principal movements of the week :—

| Higher | Firmer | Easier | Lower |
|---|---|---|---|
| Camphor oil<br>Ergot of rye<br>Lemon oil<br>Lycopodium<br>Strychnine | Chamomiles<br>Lead products<br>Orange peel (Malta fine cut)<br>Quillaia-bark<br>Quinine | Ammonia sulphate<br>Anise oil (to arrive)<br>Belladonna-root (new crop)<br>Menthol (spot) | Benzols<br>Sarsaparilla (grey Jam.) |

## Cablegrams.

Our early message from Amsterdam states that the bark sold at prices which leave the unit unchanged—viz., 6.20c.

BERGEN, June 10.—The cod-fishing at Finmarken is declining. The market is calm, cod-liver oil being quoted 69*s*. per barrel f.o.b.

NEW YORK, June 10.—A moderate amount of business has been done during the past week. Opium is lower at $6.70 per lb. Peppermint oil is steady at $4.25, and menthol firmer at $3.05. Buchu-leaves are higher, the short being $1.70 and long $1.40. Guarana is lower at $1.90 per lb., and ipecacuanha (Cartagena) is also lower, to-day's price being $1.40 per lb.

## London Markets.

ANISE OIL.—Genuine Red Ship and B.P. 15° is quoted on the spot at 5*s*. 6*d*. per lb. For arrival business has been done recently up to 4*s*. 8*d*. c.i.f., but the oil is now offered at 4*s*. 7*d*.

ANISEED is steady but slow of sale at 26*s*. 6*d*. per cwt. for good Russian, and 35*s*. 6*d*. for Spanish.

BELLADONNA-ROOT.—The new crop is offered at 50*s*. per cwt. for September-November shipment. The high price for spot has curtailed the demand considerably.

BERGAMOT OIL.—Little doing here, but Palermo reports that transactions have taken place there at slightly lower prices.

BISMUTH SALTS are unchanged, and manufacturers are very busy, owing to the phenomenally large demand consequent on Insurance Act prescribing, which has made the year's output a record.

CAMPHOR.—Steady; spot Japanese refined tablets are—½-oz. 1*s*. 8½*d*. per lb.; 1-oz., 1*s*. 8*d*.; and slabs, 1*s*. 7½*d*. Not much c.i.f. business is reported owing to only distant shipments being offered. There is still considerable uncertainty as to what the Japanese will do, and this accounts for the firmness on the part of English makers.

CAMPHOR OIL.—No Japanese variety is being offered; European manufacture is quoted at 56*s*. to 60*s*. per cwt., according to quality.

CANARY-SEED is scarce and firm on the spot at 93*s*. per quarter for ordinary Morocco, and 95*s*. for Turkish. A sale of new crop Turkish is reported at 80*s*. c.i.f. terms for September-October shipment.

CARAWAY-SEED is firm at 28*s*. to 29*s*. per cwt. for fair to good Dutch, and at 30*s*. for fine.

CASTOR OIL.—French medicinal is quoted on the spot in barrels at 33*s*. 6*d*. and cases 35*s*. per cwt.

CHAMOMILES are reported to be better. Stocks in Belgium are said to have been considerably reduced recently. Small brownish are quoted 46*s*. per cwt. and fair colour medium size 56*s*.

CHRYSOPHANIC ACID.—Quotations from German makers are higher than the English—viz., 9*s*. 9*d*. per lb., or 9*d*. more. This has not affected our market.

CITRIC ACID.—Manufacturers are unable to make any offers for prompt delivery, but from second-hands a little might be got at 2*s*. 5*d*. per lb.

"There is not enough citric acid to go round if we have a hot summer." This remark sums up the situation. Sales have again been made at 2*s*. 5*d*., and the feeling is growing that the makers will advance their price, from 2*d*. to 6*d*. being mentioned. In view, however, of the growing use of tartaric acid and other substitutes in the textile industries, the question of a rise is a bigger one than hot-weather demands.

CLOVES.—Quiet, and very little offering on the spot at 5⅞*d*. per lb.

COD-LIVER OIL.—There is not much life in the article, and 73*s*. appears to be the c.i.f. price for prompt shipment. Our Bergen correspondent, writing on June 8, reports as follows:

The Finmarken cod-fishing gave pretty good results last week, and the prospects are for continued good fishing until Midsummer, when this fishing generally closes. To-day's report gives the following results of all the cod-fisheries up to June 6:

| | 1912 | 1913 | 1914 |
|---|---|---|---|
| Catch of cod (millions) ... | 95.0 | 71.0 | 76.3 |
| Yield of c.l.o. (hect.) ... | 72,600 | 44,600 | 54,200 |
| Yield of liver for raw oils (hect.) | 30,700 | 9,400 | 10,200 |

On the oil market the business is important, and the last quotation for prime non-congealing 1914 cod-liver oil of 70s. per barrel, f.o.b. Bergen, is now merely nominal.

The Finmarken catch up to the same date amounted to 29,782,000 fish, which is estimated to yield 19,050 hectolitres of oil. There is a feeling in some quarters here that the easier tendency is not justified.

CORIANDER-SEED is unchanged at 15*s*. per cwt. for sound Morocco, and at 10*s*. to 13*s*. 6*d*. for wormy to slightly wormy.

CREAM OF TARTAR.—Remaining firm at 98*s*. for 98 to 99 per cent.

CUMIN-SEED is steady at 28*s*. per cwt. for ordinary Morocco.

ERGOT OF RYE is dearer. Good Spanish is offered at 2*s*. 2*d*. per lb., and Russian at 1*s*. 10*d*. for second quality of last crop.

FENUGREEK-SEED is quiet at 9*s*. to 9*s*. 6*d*. per cwt. for Morocco.

GINGER.—Business is slow in all kinds. We are advised that the *Jamaican* crop will be no larger than last year. The only inquiry is for the bold root, which fetches 57*s*. 6*d*. to 60*s*. per cwt. 800 packages have just arrived. *Japan*, 19*s*. 6*d*. per cwt. spot. *African* again lower for

forward shipment, business having been done below 16*s.* per cwt., Liverpool "transit" terms.

GLYCERIN.—This has been quoted at slightly reduced prices without much business resulting. Prices are nominal, as most holders are holding back, and what has been recently sold is not much guide to the real position of the article. Double-distilled, chemically pure, s.g. 1.260 and B.P. 1898 is quoted at 95*s.* per cwt., packages extra.

LEMON OIL.—Dearer. The advance on the week is estimated at 1*s.*, taking 7*s.* 8*d.* as the highest quotation; business was done early in the week at 7*s.*, and since then up to 7*s.* 4*d.* per lb. has been the current price for good brands on the spot, and 6*s.* 9*d.* to 7*s.* c.i.f. A Palermo report, dated June 6, is as follows:

A slight reaction has taken place, despite the fact that of late no important orders have come in from abroad. The large producers have never been inclined to sell their existing stocks at the low prices which have been ruling during these last months. In the meantime they tried to arrange meetings, with a view to opposing some barrier to the downward movement, and it now seems that such meetings have actually taken place, with the result that some of the more important producers have decided not to sell their stocks until prices are more remunerative.

LINSEED.—Good qualities are extremely slow of sale at 48*s.* 6*d.* to 50*s.* per quarter.

LYCOPODIUM is reported higher from Russia, and lower prices than 1*s.* 6*d.* per lb. c.i.f. for double-sifted have been refused.

MENTHOL is very slow, Kobayashi being quoted in case lots at 10*s.* 3*d.* per lb.

MERCURIALS.—There is no reportable change in mercury salts, but the market is steady and the production normal, with quicksilver at 7*l.* per bottle first-hands, and seconds 6*l.* 16*s.* 6*d.* Mr. A. S. Pickering's statistical report on quicksilver is appended:

| | | 1914 | 1913 | 1912 | 1911 |
|---|---|---|---|---|---|
| *Imports.* | | | | | |
| May ... ... | bottles | — | 418 | 564 | 6,375 |
| January–May | ,, | 23,092 | 28,827 | 31,794 | 29,476 |
| *Exports.* | | | | | |
| May ... ... | ,, | 2,029 | 2,695 | 1,769 | 1,892 |
| January–May | ,, | 10,461 | 14,868 | 12,528 | 16,826 |
| *Average Price.* | | | | | |
| May ... ... ... | | 6*l.* 17*s.* 6*d.* | 7*l.* 1*s.* 6*d.* | 8*l.* 2*s.* 5*d.* | 8*l.* 9*s.* 6*d.* |

NUX VOMICA BEANS.—Nothing whatsoever is offering in second-hands, and 20*s.* per cwt. has been paid for good beans.

OPIUM.—A lifeless market here. Although the weather and crop reports are good there is no concession in quotations. Our mail advices from Turkey are as follows:

SMYRNA, May 29.—Very little business has been effected this week; nevertheless, several buyers have been again on our market, but sellers do not show any wish to sell. The only sales we have to report are 14 cases, about 11-per-cent. to 11½-per-cent., Karahissar at 15*s.* 6*d.* The arrivals are 4,649 cases, against 2,425 at same date last year.

CONSTANTINOPLE, June 6.—The sales of the week have been nine cases of druggists' at 225 to 230 ptrs. There have been no important transactions, nevertheless the market continues firm. A telegram from Karahissar states that it has rained abundantly, and the wish is expressed that the rain may continue in this district, as well as in Ak-Chéhir. On the other hand, in the neighbourhood of Constantinople and Smyrna more rain is not desired, as it would do harm.

ORANGE-PEEL.—Further sales of Malta machine-cut have been made at 1*s.* 8*d.* per lb., and nothing with any pretence of colour can now be had below 1*s.* 9*d.* Stocks are in a very small compass.

PIMENTO.—Slow of sale on the spot at 2*s.* per lb.

QUILLAIA-BARK.—Whole is in good demand at 38*s.* to 40*s.* per cwt., and may go much dearer, as the stocks held in Hamburg and Liverpool are reported small.

QUININE.—Business is reported in both old and new at last week's prices, but only sufficient for consumptive demand, and it has not affected the market.

The market closes very firm. Second-hand holders have sold at 1*s.* 0⅝*d.*, and 1*s.* 0¾*d.* is also reported, but confirmation is wanting. Since the meeting of manufacturers at Amsterdam yesterday, when, it is understood, the question of an advance was discussed and decided, the London agents for one of the principal makers have become "not sellers." This is generally the preliminary to a rise, and it is expected that the price for sulphate will advance immediately by a penny at least. The bark unit at Amsterdam to-day is the same as at the last sales—6.20c.

SHELLAC.—More spot business has been done on a basis of 64*s.* per cwt. for fair TN Orange; free AC Garnet, 66*s.*, sellers. For arrival TN Orange June-July shipment sellers at 62*s.*, and AC Garnet, October-December, at 62*s.* 6*d.* c.i.f.

STRYCHNINE.—The very firm tendency which we reported last week ripened into an advance of 1½*d.* per oz. at the beginning of this week, making the price 1*s.* 9*d.* per oz., with the usual reductions down to 1*s.* 6*d.* for large contract quantities. Considerable sales have taken place in second hands, and the week closes without hope of any reduction, but rather the contrary, for some time to come.

SULPHUR is in good demand. Flowers are quoted 6*l.* 15*s.* and roll at 6*l.* 10*s.* in ton lots.

EAST INDIAN TAMARINDS.—There is no spot stock. Some is due to arrive shortly, but no price is mentioned.

## London Drug-auctions.

*Commercial Sale-rooms,*
*Mincing Lane, June 11, 1914.*

The offerings of first-hand goods to-day were small, and met with a poor demand. Of Cape aloes, mostly of good quality, about half sold at rates favourable to buyers, while Curaçao was all bought in. Cassia oil sold cheaply without reserve. All the buchu was withdrawn, being firm. Of Sumatra benzoin only lower grade sold, while of the Palembang variety some was better quality than usual, but all was bought in. Cardamoms sold at higher rates for best quality, other grades being steady. Dragon's-blood was represented by some fine reboiled lump, which was withdrawn, but part sold subsequently. All the ordinary seedy lump offered sold. Honey all sold at steady prices except Jamaica and Honduras, which were neglected. Johore ipecacuanha sold at 1*s.* lower. All the nux vomica offered sold. Of sarsaparilla, grey Jamaica was in good supply, and met with buyers at 1*d.* to 2*d.* lower, while the only bale of native sold at a high rate. Senna was in unimportant supply, small lots of Alexandrian leaf and pod selling at good prices, and Tinnevelly at unatered rates.

| | Offered | Sold |
|---|---|---|
| Aconite (Jap.) | 20 | 0 |
| Aloes— | | |
| Cape | 53 | 21 |
| Curaçao | 30 | 0 |
| Anise oil (star) | 3 | 0 |
| Aniseed | 15 | 15 |
| Annatto-seed | 27 | 0 |
| Asafetida | 2 | 2 |
| Balsam Peru | 3 | 0 |
| Bay oil | 1 | 0 |
| Benzoin— | | |
| Palembang | 41 | 0 |
| Siam | 26 | 0 |
| Sumatra | 63 | 8 |
| Buchu | 14 | 0 |
| Calumba | 40 | 0 |
| Camphor | 7 | 6 |
| Cannabis indica | 13 | 0 |
| Cardamoms & seed | 150 | 114 |
| Cascara sagrada | 180 | 0 |
| Cassia fistula | 29 | 0 |
| Cassia oil | 45 | 20 |
| Chaulmoogra oil | 5 | 0 |
| Chinetta | 10 | 0 |
| Coca-leaves | 26 | 21 |
| Cochineal | 3 | 0 |
| Colocynth | 7 | 5 |
| Cuttlefish-bone | 50 | 0 |
| Dragon's-blood | 19 | 5 |
| Ergot | 2 | 0 |
| Gamboge | 11 | *3 |
| Gingergrass oil | 4 | 0 |
| Honey— | | |
| Hayti | 14 | 14 |
| Honduras | 10 | 0 |
| Honolulu | 228 | 228 |
| Jamaica | 91 | 18 |
| St. Lucia | 9 | 9 |
| West Indian | 9 | 9 |
| Gum Amrad | 14 | 0 |
| Gum Ghatti | 26 | 0 |
| Ipecacuanha— | | |
| Cartagena | 1 | 0 |
| Johore | 44 | 24 |
| Matto Grosso | 24 | 18 |
| Kola | 4 | 4 |
| Lime-juice | 17 | 3 |
| Lime oil | 3 | 3 |
| Menthol | 3 | 0 |
| Mint oil | 5 | 0 |
| Myrrh | 9 | 0 |
| Nux vomica | 12 | 12 |
| Olibanum | 25 | 9 |
| Orris (Mog.) | 5 | *5 |
| Papain | 13 | 0 |
| Pistachio-kernels | 2 | 0 |
| Rhubarb— | | |
| China | 31 | 0 |
| Ch. Rhap. | 35 | 0 |
| Sarsaparilla— | | |
| Grey Jam. | 27 | 21 |
| Lima-Jam. | 9 | 0 |
| Native Jam. | 1 | 1 |
| Seedlac | 20 | 0 |
| Senna and pods— | | |
| Alex. | 23 | 3 |
| Tinnevelly | 31 | 31 |
| Soy (Ch.) | 20 | 0 |
| Squill | 9 | 0 |
| Strophanthus | 28 | 0 |
| Tamarinds (W.I.) | 93 | 0 |
| Tonka-beans | 9 | 0 |
| Turmeric | 25 | 0 |
| Wax (bees')— | | |
| Calcutta | 12 | 0 |
| Jamaica | 1 | 1 |
| Spanish | 5 | 0 |
| Ylang-ylang oil | 1 | 0 |

* Sold privately.

Aconite-root.—Twenty bales Japanese held for 30*s*.

Aloes.—Cape was easier at auction. Of 51 cases, only about half sold; Mossel Bay, usual 20-per-cent. tares, at from 36*s*. 6*d*. to 37*s*. per cwt. for good hard bright, 35*s*. for good seconds, down to 29*s*. to 31*s*. 6*d*. for dull sorttsh and coarse. Thirty cases Curaçao offered and withdrawn. Fair liver was held for 50*s*. per cwt., dark ditto at 47*s*. 6*d*., and fair liver part capey at 45*s*.

Aniseed.—Fifteen bags screenings sold at 20*s*. per cwt.

Asafetida.—Two cases of dark heavy wet gum sold without reserve at 15*s*. per cwt.

Balsam Peru.—Three cases withdrawn at 6*s*. 6*d*. per lb., but probably a bid of less would lead to business.

Benzoin.—Forty-one boxes Palembang were all withdrawn, at from 75*s*. per cwt. for good quality down to 55*s*. per cwt. for ordinary but badly packed. Of Siam, 26 packages dusty blocky siftings were offered and held for 95*s*. to 5*l*. per cwt.; 63 cases Sumatra offered and only eight cases good thirds sold at 6*l*. 10*s*. per cwt. The price wanted for medium seconds was 6*l*. 15*s*., and for good seconds 7*l*. 15*s*.

Buchu was all bought in. For good green round 5*s*. 6*d*. per lb. was wanted, the price for stalky ovals being 2*s*. 6*d*. to 2*s*. 8*d*.

Calumba-root.—Twenty bags fair bright sifted sorts held for 27*s*. 6*d*. per cwt., and a further 20 bags small and medium natural sorts for 17*s*. 6*d*. per cwt.

Camphor.—Seven cases Japanese refined, in ¼-oz. tablets, sold at 1*s*. 7½*d*. to 1*s*. 7¾*d*. per lb. For camphor-flowers 1*s*. 7*d*. was asked.

Cardamoms were in good demand at higher prices for best qualities, Indian forming over half of the supply offered. Seed was steady; of 150 packages offered, 114 sold at the following prices: Ceylon Mysore extra bold pale long, 6*s*. 3*d*.; good bold pale, 5*s*. 5*d*. to 5*s*. 6*d*.; medium to bold part split, 4*s*. 9*d*.; medium to small pale, 4*s*. 1*d*. to 4*s*. 4*d*.; fair splits part brown, 3*s*. 5*d*.; fair small, 3*s*. 3*d*.; ordinary to fair brown split, 3*s*. to 3*s*. 2*d*.; dark brown and splits, 2*s*. 10*d*. Green Ceylon sold at 2*s*. 10*d*. Indian extra bold pale sold at 6*s*. 3*d*., medium to bold ditto 5*s*. 7*d*., medium ditto 5*s*., and small 4*s*. 2*d*. Mangalore character sold at 5*s*. 6*d*. for bold reddish medium longs, and 5*s*. 5*d*. for round; medium to small longs 5*s*. 1*d*., and round 5*s*.; small longs and round at 3*s*. 10*d*., bold red and splits 4*s*. 1*d*. Malabars, good heavy, were held for 3*s*. 6*d*. per lb. Decorticated seed sold at 4*s*. 2*d*. to 4*s*. 3*d*. per lb., being steady. Fifteen packages brown Indian shells sold at 1*s*. 1*d*. to 1*s*. 3*d*. per lb. for damaged, to 1*s*. 3*d*. to 1*s*. 4*d*. for sound.

The exports from Ceylon from January 1 to May 18, 1914, were 179,628 lb., compared with 186,388 lb. in the corresponding period of the previous year—a reduction of 6,760 lb. The U.K. receipts were 92,349 lb., an increase of 15,604 lb., while those for Germany diminished by 12,824 lb. to 28,672 lb., and United States increased its imports from 26,391 lb. to 30,455 lb. India took only 5,408 lb., compared with 15,065 lb. in the same period of 1913.

Cascara Sagrada.—Sixty bags of 1912 import withdrawn at 35*s*. per cwt., at which price a further 120 bags of 1913 import were held.

Cassia Fistula.—Twenty-nine packages offered and held for 20*s*. per cwt., a bid of 16*s*. being refused.

Cassia Oil.—Of 45 cases offered, 20 were without reserve and sold at 2*s*. 11*d*. per lb. for 81 per cent. cinnamic aldehyde and 3*s*. to 3*s*. 1*d*. for 84 per cent.

Chiretta.—Ten bales were held for 3½*d*. per lb.

Coca-leaves.—Eighteen bags of fair green flimsy Ceylon sold at 2¾*d*. per lb., and three first-class sea-damaged at 2*d*. per lb.

Cochineal.—For three bags good silvers 1*s*. 10*d*. per lb. was wanted.

Colocynth.—Five cases good pale small to bold Spanish apple sold without reserve at 6*d*. to 7¾*d*. per lb., another two cases being held for 8*d*.

Dragon's-blood.—Fourteen cases of fine picked reboiled lumps were withdrawn at 22*l*. per cwt., 18*l*. 5*s*. being offered at auction, part being subsequently sold at 20*l*., and pickings from reboiled lump at 15*l*. Five cases ordinary seedy lump found buyers at 6*l*. 10*s*. to 6*l*. 12*s*. 6*d*.

Ergot.—For fair Russian 1*s*. 8*d*. was asked.

Gamboge.—Eighteen cases Siam offered, and three cases fair pipe slightly damaged sold prior to the auction at 13*l*. per cwt. Water-damaged pickings were held for 11*l*. 10*s*. per cwt., and dusty pickings at same price.

Guaza.—All bought in, six cases Bombay tops being held for 6*s*. 3*d*. per lb., and seven packages African loose for 2*s*. per lb.

Honey.—The demand for Jamaica was quiet; 18 barrels sold at 21*s*. 6*d*. per cwt. for liquid amber, 19*s*. for brown setting, and 18*s*. for dark liquid. All the 14 barrels Haiti offered sold, yellow set at 20*s*. 6*d*. to 21*s*. and brown set at 17*s*. A parcel af 228 cases Honolulu sold, palish set part sugary at 18*s*. 6*d*., yellow setting at 16*s*. 6*d*. to 16*s*. Of St. Lucia, nine cases offered and sold at 23*s*. for amber liquid. Nine barrels yellowish setting West Indian sold at 19*s*. to 20*s*.

Ipecacuanha was quiet on better supply. Twenty-four bales Matto Grosso offered, fair sound plump root being held for 8*s*. 3*d*. per lb., but a bid of 7*s*. 10*d*. is to be made. Eighteen bales all more or less damaged sold at from 7*s*. for very slight mouldy down to 4*s*. to 5*s*. for badly damaged. One bale fair part reddish Cartagena bought in; 7*s*. 3*d*. per lb. was asked. Of 44 bales Johore good root, 13 sold at 8*s*. per lb., five at 7*s*. 11*d*., and a further six at 7*s*. 10*d*., the balance being held for this latter price, which is 6*d*. down on last offering. One bale siftings was withdrawn.

Kola Nuts.—Three bags dark Ceylon sold at 2½*d*. per lb., and a bag small St. Lucia at 2¾*d*.

Lime-juice.—Three puns pale Jamaica sold at 1*s*. 9*d*.

Lime Oil.—Three cases Dominica distilled sold at 3*s*.

Myrrh.—Nine bales unpicked Aden sorts were held for 52*s*. 6*d*. per cwt.

Nux Vomica.—Eleven bags fair Madras sold at 15*s*. per cwt., and one bag oil damaged realised 10*s*. per cwt.

Olibanum.—Sixteen cases pale drop were held for 37*s*. 6*d*. per cwt., but two cases pea-size siftings sold at 23*s*., and seven cases garblings, part blocky, realised 19*s*.

Rhubarb.—Quiet and no sales made. Prices unaltered. Bold round Shensi of three parts good fracture held for 4*s*. 6*d*. per lb.; bold round Canton ditto, 3*s*. 6*d*. per lb.; rough round high dried medium 10*d*. per lb., small 9*d*.; flat high dried held for 11½*d*. per lb. for small to bold good fracture down to 10*d*. for poor colour. *Rhapontica* held for 5*d*. per lb. for medium to bold down to 2½*d*. for common small.

Sarsaparilla.—Grey Jamaica was 1*d*. to 2*d*. per lb. lower on better supply. Twenty-one bales good grey sold at 1*s*. 8*d*. per lb., a further six bales being held for 1*s*. 10*d*. per lb. Fair, rather fibrous Lima held for 1*s*. 6*d*. per lb., a bid of 1*s*. 4*d*. per lb. being refused, seven bales fair to good Lima being held for 1*s*. 6*d*. to 1*s*. 8*d*. per lb. One bale native Jamaica sold at 1*s*. 2*d*. per lb. Fifteen bales native have arrived and will be offered at next auction.

Senna.—*Alexandrian*, good colour, three-quarter leaf, sold at 1*s*. 3*d*. per lb., four bales half leaf being held for 1*s*. per lb. Good full pods partly sold at 1*s*. 4*d*. per lb. *Tinnevelly*: 31 bales offered and sold, good green medium leaf at 3½*d*. per lb., small fair colour at 2*d*., poor ditto 1¾*d*. per lb. *Pods* realised 1¾*d*. to 2*d*. per lb. for dark, an odd bale of false packed ditto going for 1¼*d*.

Tamarinds.—Ninety-three packages in all were offered, but none sold. Barbadoes of good quality held for 16*s*. 6*d*. per cwt.; fair bright at 16*s*. per cwt. For *St. Nevis* the price asked was 14*s*. 6*d*.

Tonka Beans.—Nine packages were offered but withdrawn. Fair frosted Paras held for 2*s*. 6*d*. per lb., black and foxy for 1*s*. 9*d*.

Turmeric.—Twenty-five bags fair Cochin finger held for 14*s*. per cwt.

Wax.—Bleached Calcutta was limited at 8*l*. 12*s*. 6*d*. per cwt. One barrel fair Jamaica sold at 9*l*. per cwt.; five barrels yellow Spanish were held for 6*l*. 5*s*. per cwt.

## Manchester Chemical Market.

*June 9.*

The market has not yet recovered from holiday effects. The attendance on the Chemical 'Change was small, and there was little or no movement to note in the general position, which was one of great quietude.

### Heavy Chemicals.

Business in the heavy-chemical market has now settled down again to more normal proportions after the holidays, and, generally speaking, there is a good all-round demand on prompt account at all main centres. Exports keep fairly well up to the average. Forward business is a shade quiet. Values are mostly steady and maintained at late rates.

Sulphate of Ammonia.—The declining tendency noted for some time past has continued; in fact, the position as regards price cannot be described as other than unsatisfactory. Present nominal figures are: London terms, 25-per-cent., 10*l.*: Leith, 10*l.* 15*s.*; Liverpool, 10*l.* 13*s.* 9*d.* to 10*l.* 15*s.*; and Hull, 10*l.* 12*s.* 6*d.* Forward business, July to December, is reported at 11*l.*, less 3½ terms, but there are probably more sellers than buyers at this figure, the latter apparently preferring to wait.

Lead-products are firm, with advancing tendency. White-lead, 26*l.*, red-lead, 22*l.*, and pig-lead, 20*l.* 10*s.* per ton, Tyne; white acetate of lead, 27*l.* to 27*l.* 10*s.*; brown acetate of lead, 25*l.* 10*s.* to 26*l.*; and nitrate of lead, 30*l.* 10*s.* to 31*l.* 10*s.* per ton.

Benzols are rather on the quiet side and lower since last quoted. Present naked figures: 90 per cent., 11*d.*, and 50 per cent., 11*d.*: North, 10*d.* and 10*d.* respectively.

Strontium-products rule steady at late rates, and there is a good average demand, the mineral carbonate being distinctly on the scarce side. Precipitated carbonate of strontia, 90 to 95 per cent., 11*l.* to 12*l.* 10*s.* per ton, according to quantity, etc.; mineral carbonate of strontia, lump, 86 to 90 per cent., 14*l.*, and smalls, 80 to 85 per cent., 12*l.* per ton; hydrate of strontia, crystals, 9*l.* to 9*l.* 15*s.* per ton, in casks.

### Continental Drug and Chemical Markets.

From our mail advices up to June 6 we extract the following items:

Camphor.—An extensive business has taken place in refined, and factories have successively raised their price for bells from m.350 at the beginning of May to m.425 now, and are not booking fresh orders. Japan itself is sold out until January 1915, and as offers of crude are wanting the business is confined to second-hands, whose stocks, however are very limited, so that rising prices must also be reckoned upon for some time to come.

Carnauba Wax.—Owing to the small demand lately, prices have not changed. The exporters in Brazil refuse to sell under the prices demanded, as the stocks are stated to be not very large there. The new crop is considered as ended, as the rainy season has set in. No reliable information is yet to hand with regard to the result of the new crop. The supplies in the first five months of 1914 amounted to about 9,500 bags, against 10,500 bags in the same time in the previous year, so that up to the end of May there was a shortage of about 1,000 bags. More plentiful supplies are, however, hoped for in the next few months.

Liquorice-root.—The remaining stocks of last year's Russian crop are shrinking considerably, owing to the increased demand, and prices have risen in consequence. Fresh digging is delayed owing to inundations.

Quillaia-bark is firm, owing to scarcity. The quantity still held can hardly cover the consumption until the new crop comes to Europe in February-March 1915.

### Cassia Lignea.

Writing in regard to the market for cassia lignea in China, the American Consul at Hong-Kong states, in a report sent to the Washington authorities, that the trade of South China passed through a crisis during the year 1913, as a result of which new standard contracts for the trade have been established. Regarding the terms of the new agreement, the Consul says:

"All varieties of Chinese cassia are to be sold f.o.b. Canton River steamer, the export duty to be paid by the seller, the freight by the buyer. To serve as standards the Cassia Guild will deposit annually with the Canton Chamber of Commerce at the commencement of each season five cases of selected cassia and five bales of broken cassia, which are to be chosen by the members of the Canton Chamber of Commerce, as representing fair average quality of the season. Other samples of such standards are furnished for deposit in New York, London, and Hamburg, the latter samples to be paid for by the parties interested.

Claims of short weight are to be checked by the Canton Chamber of Commerce, short weights up to 5 per cent. to be disregarded; those between 5 and 10 per cent. to be allowed on the basis of Custom House weights where the latter can be relied upon; and those of 10 per cent. or more to be notified to the seller by cablegram when reweighing by a third party can be had which will bind both parties, the cost to be paid by the loser. While it is thought that some of the recent friction obtaining in the trade can be avoided by this arrangement, the situation is altogether unsatisfactory to the trade in Hong-Kong. Canton cassia comes mostly from Kwangsi province. It comes in various forms as cassia lignea, which is graded as selected, selected broken, and extra selected broken, and as cassia buds. The trade is handicapped by the fact that it is compelled, by nature of the production and control of the product by Chinese, to depend upon quality standards which are variable somewhat from season to season and cannot be definitely fixed without some supervising authority, which in this case does not exist."

As regards the trade in cassia, the Consul reports that this was very unsatisfactory last year, not only because of trouble with quality standards, but also because of continued fall in prices. The shipments of cassia of all kinds from Hong-Kong in 1913 amounted to a total of 156,881 cases (each 66⅔ lb.), as compared with 183,135 cases in 1912. Of the shipments of 1913, 56,224 cases were sent to the United States and Canada, as compared with 110,720 cases in 1912; 95,927 cases were sent to Continental Europe, as compared with 71,096 cases in 1912; and 4,730 cases were sent to Great Britain, as compared with 1,319 cases the year before.

## The Carbon Copy.

A Panel Doctor's Objection to Prescription-writing.

In a King's Bench Divisional Court on Thursday, June 11, Justices Bray, Avory, and Atkin dealt with the case in which Dr. Alfred Salter, of Bermondsey, secured a rule *nisi* directed to the London Insurance Committee, calling on them to show cause why they should not reinsert his name on the panel of doctors under the National Insurance Act. Dr. Salter's name had been removed from the panel because he objected to do what he termed "clerical work for the benefit of the chemists."

Mr. Leslie Scott, K.C., who appeared on behalf of the London Insurance Committee, said the question raised in the case had to deal with the powers of the County of London Insurance Committee under the National Insurance Act. During 1913 Dr. Salter acted as a panel doctor, and was requested by the Committee to duplicate, by means of a carbon, the form on which he prescribed for drugs, that the chemist might have one for himself and another to send to the Committee that the quarterly payment for drugs might be ensured. Dr. Salter objected to the duplicating, remarking that he was asked to perform clerical work which should be done by the chemist, and contending that the Act imposed no obligation on him to do such work. Before the 1914 year began the Committee sent out a notice to all the panel doctors to the effect that they were going to vary the agreement and insist on all the practitioners duplicating their drug prescriptions. Four out of 1,500 doctors objected, and Dr. Salter was the only brave survivor—(laughter)—and as he persisted in his objection his name was removed from the panel.

Mr. Justice Bray asked whether there was any provision for payment of doctors for understanding the agreement. (Laughter.)

Mr. Justice Avory asked what was meant by the words in a circular issued by the Commissioners: "These revised regulations revoke but incorporate the provisions of the old regulations." (Laughter.)

Mr. Scott: It means that the old regulations come to an end, but most of them are repeated in the new. I suppose it means repealed and re-enacted. (Laughter.)

Counsel explained what the book of carbon prescription-forms is.

Mr. Justice Avory: It does not seem to be disputed that the only object of this is to save the chemist the work of copying the prescription?

Mr. Scott agreed.

His Lordship: To force the doctor to do the chemist's work?

Mr. Scott: Obviously; but it must be remembered that the chemist would have to copy the whole prescription, while the doctor could provide a duplicate with little trouble.

At this stage the hearing was adjourned until Friday.

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At St. George's, Hanover Square, on Thursday, Mr. John Campbell Boot, only son of Sir Jesse Boot, was married to Miss Joyce Pyman, daughter of Mr. F. Pyman, of Fitzjohn's Avenue. Six daintily dressed bridesmaids, three in mauve and three in pink, and a little page in a picturesque white-satin suit, followed the bride.

## London Drug Statistics.

The following statistics are compiled from information supplied by public warehouses. They relate to the receipts and deliveries of some of the leading drugs from and into the London public warehouses for the month of May, and to the stocks on May 31, 1914:

| — | May | | Stocks | | 1914 | |
|---|---|---|---|---|---|---|
| | Landed | Delivd. | 1914 | 1913 | Imprtd. | Delivd. |
| Aloes .....cs., etc. | 170 | 84 | 1,168 | 895 | 820 | 633 |
| " .....gourds | — | — | 1,322 | 1,322 | — | — |
| Anise, star .....cs. | — | — | — | — | — | — |
| Arrowroot ...pkgs. | 2,602 | 735 | 10,859 | 6,292 | 9,425 | 3,645 |
| Balsams.....cks. | 10 | 25 | 136 | 124 | 80 | 106 |
| Calumba .....pkgs. | 227 | 211 | 645 | 2,002 | 426 | 1,047 |
| Camphor ..... " | 752 | 339 | 1,363 | 1,355 | 4,158 | 3,884 |
| Cardamoms ... " | 604 | 438 | 1,182 | 1,055 | 2,209 | 1,624 |
| Cascara sagrada tons | — | 7 | 224 | 269 | 32 | 47 |
| Cinchona .....pkgs. | 390 | 266 | 3,301 | 3,619 | 1,522 | 1,492 |
| Cochineal .....bgs. | — | 9 | 380 | 246 | 241 | 141 |
| Cubebs ..... " | — | 13 | 155 | 196 | 28 | 74 |
| Dragon's-blood pkgs. | 24 | 21 | 69 | 79 | 106 | 92 |
| Galls..... " | 270 | 97 | 2,456 | 3,987 | 809 | 1,484 |
| Gums— | | | | | | |
| Ammoniacum " | — | — | 70 | 59 | 54 | 17 |
| Animi ..... " | 98 | 125 | 155 | 296 | 361 | 486 |
| Arabic ..... " | 566 | 1,245 | 4,075 | 7,255 | 1,731 | 4,630 |
| Asafetida ..... " | 20 | 44 | 1,417 | 2,210 | 428 | 657 |
| Benzoin ..... " | 179 | 133 | 556 | 625 | 787 | 812 |
| Copal ..... " | 4,531 | 4,195 | 8,471 | 19,354 | 23,075 | 23,335 |
| Damar ..... " | 1,151 | 1,029 | 2,947 | 4,204 | 3,560 | 3,737 |
| Gamboge ..... " | — | 3 | 63 | 106 | 39 | 51 |
| Guaiacum ... " | 28 | 6 | 89 | 28 | 34 | 8 |
| Kauri... tons net | 94 | 144 | 511 | 203 | 530 | 374 |
| Kino ..... pkgs. | — | 8 | 37 | 56 | — | 11 |
| Mastich ..... " | — | — | 13 | 23 | 2 | — |
| Myrrb, E.I. ... " | 41 | 36 | 350 | 396 | 116 | 142 |
| Olibanum ..... " | 120 | 34 | 908 | 1,371 | 254 | 215 |
| Sandarac ..... " | 122 | 57 | 353 | 431 | 492 | 518 |
| Tragacanth ... " | 1,668 | 1,839 | 10,068 | 6,326 | 9,862 | 6,522 |
| Ipecacuanha— | | | | | | |
| Cartagena ... " | 10 | 5 | 125 | 24 | 109 | 53 |
| E.I. (Johore) " | 40 | 1 | 77 | 25 | 78 | 41 |
| Matto Grosso " | 14 | 26 | 89 | 117 | 68 | 128 |
| Minas ..... " | 13 | 3 | 13 | 51 | 16 | 41 |
| Jalap .....bls. | 39 | 31 | 195 | 205 | 137 | 131 |
| Nux Vomica ...pkgs. | — | 4 | 51 | 219 | 68 | 37 |
| Oils— | | | | | | |
| *Anise, star .....cs. | 10 | — | 41 | 24 | 41 | 23 |
| *Cassia ..... " | — | 10 | 49 | 32 | 35 | 25 |
| Castor .....pkgs. | 88 | 75 | 195 | 192 | 563 | 531 |
| Coconut .....tons | 149 | 122 | 381 | 271 | 872 | 867 |
| Olive .....pkgs. | 493 | 637 | 2,105 | 2,109 | 3,296 | 2,657 |
| Palm .....tons | — | — | 56 | 58 | — | — |
| Quinine .....lb. | 1,853 | 4,566 | 198,424 | 235,460 | 10,537 | 25,186 |
| Rhubarb .....cs. | 56 | 47 | 628 | 627 | 198 | 290 |
| Chin.Rhapont. bgs. | — | 36 | 2,408 | 2,527 | — | 49 |
| Sarsaparilla .....bls. | 80 | 139 | 87 | 172 | 368 | 372 |
| Senna .....pkgs. | 318 | 157 | 788 | 1,578 | 1,082 | 2,066 |
| Shellac .....cs. | 4,294 | 4,721 | 101,222 | 91,189 | 25,338 | 18,046 |
| Turmeric .....tons | 13 | 12 | 277 | 382 | 46 | 222 |
| Wax— | | | | | | |
| Bees' .....pkgs. | 309 | 531 | 1,457 | 1,586 | 1,538 | 1,615 |
| Vegetable ... " | 100 | 106 | 640 | 447 | 806 | 513 |

* Stocks of essential oils at Smith's Wharf and Brewer's Quay are not included.

## A Double Celebration.

To commemorate the coming-of-age of Mr. J. de Carle Smith, jun., B.Sc., F.C.S., and the silver wedding of his parents, Mr. and Mrs. J. de Carle Smith, the whole of the staff of Smith & Sons, wholesale druggists, Norwich, were on June 8 taken for a boat-trip to Buckenham Staithe. At luncheon on board the health of Mr. J. de Carle Smith, jun., was proposed by Mr. A. S. Huggins, who explained that the function was in connection with Mr. Smith's coming-of-age on October 8 last year, when a presentation was made by the staff. Mr. Smith thanked the employés for the kind welcome they had extended to him. Mr. E. H. Lain proposed the toast of "The Firm," and Mr. J. de Carle Smith, in reply, recalled the fact that the firm was established by his grandfather in 1793. Mr. R. Silcock Smith also responded, and mentioned that his nephew was of the fifth generation and was the third "J. D. Smith" in the family. A presentation from the employés was next made to Mr. and Mrs. J. de Carle Smith in connection with their silver-wedding day on June 12, and both Mr. and Mrs. Smith acknowledged the kind spirit which had prompted the presentation. A rose-bowl has been presented to Mr. and Mrs. Smith at Doughty's Hospital from the nurses and inmates of that and other almshouses in Norwich.

## Correspondence

### Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with.

Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

### Bellier's Test for Arachis Oil.

Sir,—With reference to Mr. A. E. Bell's note as to the possibility of obtaining a precipitate with genuine olive oil by Bellier's test for arachis oil, it is my experience that this possibility is reduced to a minimum if the modifications of the test mentioned in my paper on this subject ("Analyst," 1912, 487) are carried out. In only two cases out of several hundred oils examined in this laboratory has a slight precipitate been obtained with a genuine olive oil. It has been noted by Lüers ("Journal of the Society of Chemical Industry," 1913, 31) that certain abnormal oils containing a high proportion of myristin give a precipitate of potassium myristate by this test, but that if three drops of glacial acetic acid is added and the mixture warmed and again cooled, no precipitate is obtained. Both the oils mentioned gave clear liquids when treated in this way. Oils containing a large proportion of unsaponifiable matter, such as those obtained by extraction with a solvent of the residue remaining after the oil has been expressed from the olives, may give a precipitate by this test, but these oils are only suitable for lubricating-purposes, and are not likely to be met with in pharmacy. In my experience the modified Bellier's test is an extremely useful one as a saver of time and labour. At the same time, an oil which gives a precipitate should be further examined, either by the quantitative method or by Renard's test.

Yours faithfully,
Norman Evers.

Messrs. Allen & Hanburys' Laboratories,
Bethnal Green.

### Apothecaries' Hall of Ireland.

Sir,—With reference to a letter appearing in your issue of June 6 (p. 63) regarding the Preliminary examination of this Board, I am directed to call your correspondent's attention to the fact that the recognition of any particular examination in general education is a matter entirely for this body, so far as candidates for this licence are concerned. "Pro Bono Publico" may be fully assured that when he has passed this Preliminary examination he will be quite at liberty to commence the study of medicine, and when he has fully satisfied our regulations he will obtain the diploma to practise medicine, surgery, and midwifery, and he will be registered by the General Medical Council as a Medical Practitioner. It is also well that he should know that in holding the Preliminary examination the Apothecaries' Hall is fulfilling a duty imposed on it by statutory authority. As regards your comment, I have to point out that although the General Medical Council has refused to register students holding the certificate in question it has fully recognised that the Hall is free to require of its candidates such qualifications in arts as it thinks desirable.

Yours faithfully,
Henry W. Mason, L.R.C.S.I.,
Registrar.

[Mr. Mason also calls our attention to the minutes of the General Medical Council, 1913, p. 424, "Report by the Examination Committee on a Communication from the Apothecaries' Hall, Dublin," in which it is stated:

The Committee are unable to find from the minutes that the Medical Council have so far taken any action which would prevent candidates, if they so desired, taking the Preliminary Arts examination of the Apothecaries' Hall, and subsequently proceeding to the Professional examinations held by that body necessary for obtaining the registrable diploma of L.A.H. The Apothecaries' Hall is therefore free to require of its candidates such qualification in arts as it thinks desirable, but it has no right to claim that its Preliminary examination in arts shall be accepted by any other licensing authority.]

### Wanted, "Tariff Reform."

Sir,—I hope you may not think that the above heading has anything to do with any new theory in the world of politics. No; we have had these *ad nauseam* lately, and I do not feel at all interested in them. What I wish, Mr. Editor, with your permission, is to draw the attention of my fellow-pharmacists to the rules given for pricing our prescriptions on page 1 of the Tariff Prices in connection with the National Insurance Act. In the first paragraph we are instructed to divide the cost per lb. by eleven in order to arrive at the charge for the 480-grain ounce. With this I have no fault to find whatever. It gives us the stipulated profit of one-third, or $33\frac{1}{3}$ per cent. to the fraction of a farthing. With paragraph No. 2, however, I am not at all satisfied, and to this I would draw the attention of all concerned. The direction given here is:

"In the case of drugs usually purchased in small quantities and listed at prices per ounce (437.5 grains), add to the cost price of the same four-tenths to get the Tariff charge per ounce (480 grains)."

On different occasions we have been told that this $\frac{4}{10}$ rule gives us a profit of $33\frac{1}{3}$ per cent. That this was the intention of the compilers there can be no doubt whatever. We are told that the principle followed in pricing is the Continental one—viz., the smaller the quantity ordered, the higher should be the percentage of profit. Now, if in paragraph No. 1 we are allowed $33\frac{1}{3}$ per cent. profit on cost when dealing with quantities of 1 lb., or 7,000 grains, is it not reasonable to expect that we should at least receive as high a percentage of profit in paragraph No. 2, which deals with quantities of 480 grains or less? Let us see, then, what $\frac{4}{10}$ added to the cost of the avoir. ounce really means. Bear in mind the fact that the ounce which we dispense, and on which we are supposed to be paid a profit of $33\frac{1}{3}$ per cent., is not the $437\frac{1}{2}$-grain one, but that which contains 480 grains, and thus we are giving overweight, as it were, in the ratio of $437\frac{1}{2}$ to 480, or exactly in the ratio of 175 to 192. Now, if we have to increase the quantity supplied in this ratio, surely our percentage of profit should be likewise increased in the same ratio. If the percentage allowed is $33\frac{1}{3}$ the problem will work out thus:

$$\frac{192}{175} \times \frac{100}{3} = 47\tfrac{4}{7} \text{ per cent.}$$

But again, $\frac{4}{10}$ added to the cost of avoir. ounce means only 40 per cent. This shows that we are and have been all along discounted to the extent of $6\frac{4}{7}$ per cent., and that on the smaller quantities ordered only, whereas on the pound and half-pound quantities we are receiving our full quota as stipulated. This loss which we are now put to under the $\frac{4}{10}$ rule amounts to about 1*s.* 4*d.* on the £ cost. Certainly this only applies to the smaller quantities in the Tariff, but unfortunately often the prices of these very articles are the highest in our list.

One cannot help remarking that it does seem strange that the framers of this Tariff, who tell us on the first page that the principle guiding them is "the smaller the quantity," "the greater should be the percentage of profit," should give us such a good illustration of its opposite—viz., "The smaller the quantity, the smaller the percentage of profit." I sincerely hope that someone more expert in figures will examine my statements, and if anything is wrong I shall humbly apologise to the compilers for having had the temerity to criticise their work. If, on the other hand, these statements are correct, our representatives must see to it that we get the share of profit we are justly entitled to. The question, then, should be: How can we best have Tariff Reform? How can we carry out the Continental principle with respect to these small quantities of drugs on our list? If one might humbly offer a suggestion, would it not be better to adopt another factor as multiplier of the cost price of the avoir. ounce? Instead of using $\frac{4}{10}$ I should recommend the use of $\frac{7}{15}$. The latter fraction is quite as easy to use as the former. One might easily run through the Tariff with it and do all the operations mentally. This fraction would be correct to about 2*s.* on every 100*l.* cost, whereas by the present method of pricing panel pharmacists are losing some 6*l.* 10*s.* or more on the same amount.—Yours faithfully,

Blyth, June 8. Geo. Cormack.

### Uniformity in Dispensing Abnormal Prescriptions.

Sir,—Will you allow me to thank those Hon. Secretaries of Associations and Referees who have been good enough to send such carefully-thought-out replies to the questions distributed on behalf of the British Pharmaceutical Conference Practice Section? May I also request others who are intending to send replies to do so before Tuesday, June 16?—so that I may have time to analyse and tabulate them before the next meeting of the Practice Section Sub-Committee, at which the suggested rules will be drawn up.

Cambridge. E. Saville Peck.

### Chemists' Associations.

Sir,—Your correspondent "Hon. Secretary" is in rather too great a hurry to get the pharmaceutical leopard to change his spots; it will take quite another generation to make him combine freely. Here, in Kent, we have a capital set of county Association officials, who have made the machine run smoothly against considerable odds, and have obtained from the Kent Insurance Committee good terms and prompt payment, yet the Association Committee have to pay all their own travelling and other expenses (a matter of 3*l.* or 5*l.* a year each), then expend a considerable amount of time and money to obtain the pharmacists' 2*s.* 6*d.* subscriptions to pay for the necessary printing and postages of the Association. Yet I am prepared to say we are much improved from the time—now nearly twenty years ago—when the *C. & D.* extended me a helping hand as an hon. secretary.—Yours faithfully,

Dover. G. F. Forster.

Sir,—The letter of "Hon. Secretary" in your issue of June 6 might with very little alteration record the history of an Association which has had an existence of nearly half a century. His experience is, I believe, much the same as that of most Association officials, who find that only about 15 to 20 per cent. of the members take any sustained interest in their meetings, etc.—Yours truly,

Ex-Secretary. (253/15.)

Sir,—As it has come to my knowledge that some confusion has been caused by a similarity in the names, perhaps you will allow me to point out that the newly elected President of the Manchester Chemists' Assistants' Association is Mr. W. Kirby, not Mr. Wm. Kirkby, M.Sc., etc. Yours, etc.,

Victoria University of Manchester. James Grier.

Sir,—We should esteem it a favour if you will spare us space to thank the prominent wholesale firms who have most generously donated to our Society, the Western Pharmaceutical Alumni. Messrs. Wright, Layman & Umney have been most generous in helping us to make a successful body, and practically all the wholesale firms to whom we have applied have given us their assistance and support in our laudable object. It has been suggested that we open an information bureau for the benefit of anyone in our line who may be contemplating visiting this part of the country for a holiday or otherwise, and we shall be most pleased to give any information they may require, as our membership covers a considerable area. Our lectures are still commanding a good attendance, and we hope in the course of a few months to open a branch Association. I have the honour to be,

E. R. Parken, Secretary.

Clarence Chambers, Tavistock Road, Plymouth.

## Subscribers' Symposium.

**For questions, answers, incidents, and interchange of opinions among "C. & D." readers.**

*Belladonna Specimens for the Asking*

"I shall be pleased to send specimens of belladonna leaves and flowers (but no fruits yet) to all who send boxes with stamped addressed labels to me. As the leaves are about 1 ft. long, biggish boxes will be required; and I should be able to spare biggish sprays if such are desired."—*W. Spencer Turner, Ph.C.* (Willingham, Cambs).

*A Useful Hint.*

"Tablets of hexamethylenetetramine have many uses, but here is one not generally known. Place the tablet on a slab and light it with a match. The hot, smokeless flame produced is sufficient to boil a small quantity of water in a test-tube in half a minute, when the tablet can be blown out and used again. This forms a handy means for making an extemporary test (say, for albumin in urine) in cases where there is no bunsen or spirit-lamp at hand."—*J. W. Kendall.*

*Giving Poisons by the Ear.*

*Cymro* (292/45) had the following to dispense:

Cocainæ hydroch.,
Acid. carbolic. ... ... aa. gr. v.
Glycerin. ad ... ... ... ʒj.

A few drops to be placed in the ear at once.

He writes: "I was a bit nervous about this; it seemed strong for a child, besides the incompatibility. However, it was sent, and nothing was heard of it. The question arises in my mind: What percentage of a poisonous alkaloid can be administered by the ear—more than by the usual way? I suppose Hamlet's poison was fiction, and could not happen in real life."

*Jay Macksims*

(as he writes them).

1. Too many chemists over eager to make bills big by supplying too much, instead of verifying.
2. Too many were deep in debt before the National Insurance Act.
3. Big stocks: wrong class of goods.
4. Had to buy big lots of new goods, which meant—more debts.
5. Talked too loud about qualified men instead of improved methods.
6. Decried the doctors' stock mixtures, and now they have got to imitate them.
7. First year's losses=a quick lesson in *experientia docet.*
8. Very lucky if future pooling pays off back debts.

*A Hint to Students.*

"It is well known by students of chemistry and pharmacy that time, and often a considerable time, is required for the complete precipitation of certain substances in quantitative analytical operations. Notably may be mentioned the precipitation of magnesium by ammoniacal alkaline phosphates and *vice versâ*, barium sulphate, calcium oxalate, ferric oxide, and even morphine in the official opium-assay process. It is not so generally known that all this delay is really not necessary when proper conditions are observed. An experiment will show that what is precipitated after, say, thirty minutes is not worth chasing, and, as it is a constant quantity as a rule, under like conditions, it may be allowed for. As a concrete example, 2 grams of antimony sulphide was extracted with carbon disulphide, and this solution evaporated to dryness, the residue oxidised in the usual way by fuming nitric acid in the presence of potassium nitrate, hydrochloric acid then added, evaporated to dryness, and again taken up with weak acidulated water and precipitated with barium-chloride solution with the usual precautions. The precipitate collected after thirty minutes, washed, dried, ignited, and weighed, gave 0.308 gram barium sulphate. The filtrate evaporated to low bulk, diluted with water, and left forty-eight hours, gave 0.004 gram of barium sulphate—truly a veritable will-o'-the-wisp to follow; and other examples of the same thing could be brought forward."—*Abel Scholar.*

*How to Become a Nurse.*

"May I, as the father of a trained nurse, and knowing some few of the ropes of the good ship 'Nursing,' give a few words of help to your correspondent 'Q,' who asks for advice as to his daughter going into training as a nurse? I would not recommend his daughter going to a children's hospital as a kind of preliminary training: this is much more plausible in theory than good in practice. It is well to remember that preliminary training of this sort does not count when the nurse goes in for the regular training at the hospital where she intends to take her certificate. All the young women whom I have known to do this preliminary training have regretted it; they feel it so hard to have to begin again the hard grind at the very bottom of the ladder, exactly like the rawest probationer; it seems to make the probationary period double length, and is really most trying. Of course, if children's nursing is intended as a life's work the case is different, but in any case I would not recommend young women to take up the very arduous duties of sick nursing at too early an age. The demands on their strength and nervous energy increase year by year. It is much better for a girl to begin when she is fully developed and better able to bear the severe strain; far better to employ the time in the general improvement of the education and in obtaining a good groundwork of useful information, which, while not included in the hospital training of nurses, is of the utmost value when they are fairly launched on their work either as hospital or private nurses. I would recommend a good course of cooking, especially invalid cooking, and household management generally; for as every soldier may carry a field-marshal's baton in his knapsack, so every nurse hopes some day to be at the head of some hospital or nursing establishment, and these posts can only be given now to those who, besides a good practical knowledge of nursing, have mental and educational qualifications fitting them for the control of a modern hospital, either as matron or as sister. In private nursing, too, a well-informed nurse is much more acceptable, in the convalescent stage especially, than one who can only talk chit-chat and 'shop.' As the father is a chemist, a course of lessons in dispensing in his business would be most helpful."—*Wm. Bousfield* (Erdington, near Birmingham).

## Legal Queries.

**The majority of difficulties in regard to trade law are anticipated by the legal information printed in "The Chemist and Druggist Diary," 1914. See especially pp. 469-499.**

*X.* (250/56).—It is unwise to enter into a partnership agreement without the advice of a solicitor.

*Pharmacist* (250/8).—Your label makes the red oils liable to medicine stamp-duty for three reasons: (1) It uses your name in the possessive case; (2) holds out the oils for the five human ailments named in the directions for use; and (3) it is "prepared only by" you.

*Aspirin* (120/40).—The National Insurance Act, 1911, Section 15 (5, iii), does not qualify persons who acted as dispensers to medical men or public institutions; it simply enables panel chemists and companies *to employ them* to dispense Insurance prescriptions without qualified supervision; consequently we do not think such a label as the following is correct:

R. Jones,
Qualified Dispenser
(Jones, Cash Chemists, Ltd.)

It would be better to say, "Jones, Cash Chemists, Ltd. (R. Jones, Insurance Dispenser)."

*Dens* (227/32).—The pamphlet that you send refers to a form of electric treatment, part of which is a liquid to apply to the human body and for the patient to take internally. The treatment is for human ailments named in the circular, and what is said therein unquestionably holds out and recommends the fluid for the prevention, cure, or relief of these ailments. If the fluid is not an entire drug it is in consequence liable to medicine stamp-duty according to the price at which it is retailed; but we judge from the description given that the fluid is an entire drug, therefore it is exempt from medicine stamp-duty when sold by a registered chemist or a person licensed to retail stamped medicines.

*R. B.* (216/38).—The Canadian Act in regard to the importation and sale of patent and proprietary medicines does not apply to cattle-medicines, as you may judge by the following definition of "proprietary or patent medicine":

Every artificial remedy or prescription manufactured for the internal use of man, the name, composition, or definition of which is not to be found in the British Pharmacopœia, the Codex Medicamentarius of France, the Pharmacopœia of the United States, or any foreign Pharmacopœia approved by the Minister of Inland Revenue, or any formulary adopted by any properly constituted Pharmaceutical Association representing the Dominion of Canada approved by the Minister, or upon which is not printed in a conspicuous manner, and forming an inseparable part of the label and wrapper, the true formula or list of medicinal ingredients, which must not contain cocaine or any of its derivatives or preparations.

*Hibernia* (228/42).—The law as to the sale of such liquids as turpentine, paraffin oil, and the like in aërated-water bottles embossed with the name of the manufacturer of the aërated water is somewhat nebulous. *Prima facie* bottles so embossed are the property of the person or firm whose name is upon them, but it is not part of the chemist's business to determine, when a customer presents a bottle to him, whether that bottle is the customer's property or not. We do not know of any case in which it has been successfully sustained that the chemist commits a misdemeanour by placing an objectionable liquid in such bottle, and action under the Merchandise-marks Act, Section 5, has not been successful. As a matter of courtesy and fair dealing, we consider that chemists should not put turpentine and the like in aërated-water bottles so branded. There are many objections to this being done, but threats on the part of local bottle-exchanges are unwarranted and out of place, as such exchanges are more likely to secure their end by courteous co-operation with chemists and others. See the *C. & D. Diary*, p. 483. A lawyer's statement of the situation from the aërated-water manufacturer's point of view was printed in the *C. & D.*, March 23, 1912, p. 65.

## Miscellaneous Inquiries.

**We do not undertake to analyse and report upon proprietary articles, and when samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.**

**We do not as a rule repeat information which has been given in this section during the past twelve months, as it occupies space which can be more profitably utilised for other information. In such cases the numbers are mentioned, and if querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.**

*Argus* (190/23).—COLOURING MIST. BISMUTHI.—The combination of carmine and cudbear is now suggested as best for colouring mist. bismuthi c. pepsin. This is embodied in a formula given in the *C. & D.*, April 26, 1913, p. 105. The following are the recipes for the colouring-matters:

*Liquor Carmini.*

| | |
|---|---|
| Carmini ... ... ... ... | ʒj. |
| Liq. ammon. ... ... ... | ʒvss. |
| Glycerin. ... ... ... ... | ʒvss. |
| Aquam ad ... ... ... ... | ʒxivss. |

Triturate the carmine to a fine powder in a mortar, gradually add the ammonia-water and afterwards the glycerin, under constant trituration. Transfer the mixture to a porcelain capsule, and heat it upon a water-bath until the liquid is free from ammoniacal odour; then make up to volume with water.

*Tinct. Persionis.*

| | |
|---|---|
| Pulv. persionis ... ... ... | ʒij. |
| Spirit., | |
| Aq. aa. q.s. ad ... ... ... | ʒxivss. |

Percolate the cudbear with a mixture of one volume of spirit and two of water until 14½ oz. of percolate is obtained.

*R. B. K.* (249/42).—We cannot add to what was stated in the *C. & D.*, June 6, p. 49, as to the date when the new British Pharmacopœia will be published. Minor candidates will be examined on the 1898 edition for some time to come, but it would be unreasonable for such candidates to be entirely ignorant of the new work after it is published.

*Ego* (249/4).—If you want to change your employment in order to better yourself, you must make up your mind to risk dismissal if you give your employer's name as a reference. A man who cannot take that risk is not likely to better himself

*J. W.* (248/55).—RED-WATER IN CATTLE.—"J. W." submits the following formula, which he desires to put up as a proprietary medicine for red-water in cattle:

| | |
|---|---|
| Tr. ferri mur. ... ... ... | ʒiij. |
| Ol. terebinthinæ ... ... ... | ʒiij. |
| Spt. æth. nit. ... ... ... | ʒij. |

He asks if there is any way he could make it into a fairly presentable mixture, or into a sort of emulsion. [At first sight it would seem as though this prescription could be compounded as an emulsion with egg, after the manner of making Stokes's liniment. There is so much alcohol present, however, that it is not easy to prevent some coagulation of the albumen, and an emulsion prepared in this way is not satisfactorily smooth. There are two ways in which the compound can be made presentable and workable: (1) Place 30 grains of powdered tragacanth in a bottle, pour on the spirit first, and shake till the tragacanth is thoroughly diffused; then add the tincture and shake again; lastly, introduce the turpentine in four or five successive portions, shaking after each portion has been added. In this way is produced an emulsion which separates after a time, but when shaken up retains the turpentine thoroughly divided and evenly diffused. (2) Rub 80 grains of Gouda cheese with 16 grains of powdered tragacanth, and add gradually, with steady trituration, first the spirit, next the tincture, and lastly the turpentine. Set aside and stir occasionally till it begins to thicken, then stir vigorously till a uniform creamy emulsion is formed. The product is a perfect emulsion of about the right consistence to pour conveniently. It can be obtained thinner or thicker by diminishing or increasing the quantity of the emulsifying material.

*St. Mungo* (148/73).—Benzoic acid is soluble to the extent of 1 part by weight in 2¾ parts by volume of 90-per-cent. alcohol—that is, ordinary rectified spirit—and in the same proportion of ether. Sodium benzoate is soluble in water to the extent of 1 part by weight in 2 parts of water by volume.

*W. D.* (191/56).—PLATINUM SULPHIDE is precipitated slowly on warming when sulphides are added to solutions of soluble platinum salts. We think that sodium sulphide would probably work best with the use of a little heat, but as the object of the conchologist is to precipitate some form of platinum to differentiate structure of shells, possibly the best method would be to treat the shells with platinum dichloride solution first, and subsequently immerse in weak formaldehyde solution—say, 5 or 10 per cent. This should give an amorphous precipitate of platinum black in the shells.

*Bang* (244/48).—(A) Your NURSERY HAIR-LOTION formula is good. We agree with you that the combination of acetic acid and methylated spirit loosens the nits, but in a few cases the liquid may irritate the skin. (B) The silver-nitrate ointment may be made with benzoated lard and no olive oil. The darkening of the ointment does not indicate any appreciable loss of therapeutic activity in the treatment of piles. Suppositories of the same strength—say, a tenth of a grain in each—may be made with oil of theobroma. Paraffin is not so good a basis for pile-ointment as is lard, the latter being more emollient.

*D. S.* (229/54).—The directions "ʒss. t.d.s. P.p.a." mean "A tablespoonful three times a day. Shake the bottle" (phialam prius agita). See "The Art of Dispensing," ix., p. 522. "Syrupus papaveris" means the B.P. 1885 preparation.

# Retrospect of Fifty Years Ago.

**Reprinted from "The Chemist and Druggist," June 15, 1864.**

### The Proposed Legislation.

[The following note was appended to the report on proposed legislation affecting chemists and druggists, from which we quoted last week. This note has reference to ten letters, which occupied more than a third of the space in the whole issue, and as they were in the smallest type the letters represented almost half the matter in the number. These facts are eloquent of the keen interest taken fifty years ago in the Bill promoted by the Pharmaceutical Society. The Bill of the United Society of Chemists and Druggists had not up to that time been drafted, and the hostility shown to the Pharmaceutical Society's Bill was solely due to itself.]

Our correspondents have this month written so well and so fully on the proposed legislation affecting chemists and druggists, that there is little left for us to write—though much more than we can find space for. Mr. Proctor's letter is a manly and temperate defence of the Pharmaceutical Society—just the sort of letter we might expect from the writer. We have no doubt, however, that some of the leading members of the United Society will be able to show the weakness of many of the points in this defence. Mr. Proctor corrects one error inadvertently made by us—we do not hold ourselves responsible for the mistakes made by our correspondents: instead of saying that the Bill proposes that none but "pharmaceutical chemists" shall commence business as dispensers after the 1st of January 1865, we should have said none but "pharmaceutical chemists and chemists who have passed the Minor examination of the Pharmaceutical Society." We can assure Mr. Proctor that we did not purposely misrepresent this clause of the Bill. The replies to the long letter of last month, headed "Audi Alteram Partem," show that "W. W.," the champion of the Pharmaceutical Society, resembles the knight in the fable who only saw one side of the shield. The letter of "An Outsider" contains a suggestion which is particularly deserving of the attention of those pharmaceutists who wish to come to a good understanding with outsiders. The letter touching the wholesale trade will be read with interest by all chemists and druggists connected with the United Society.

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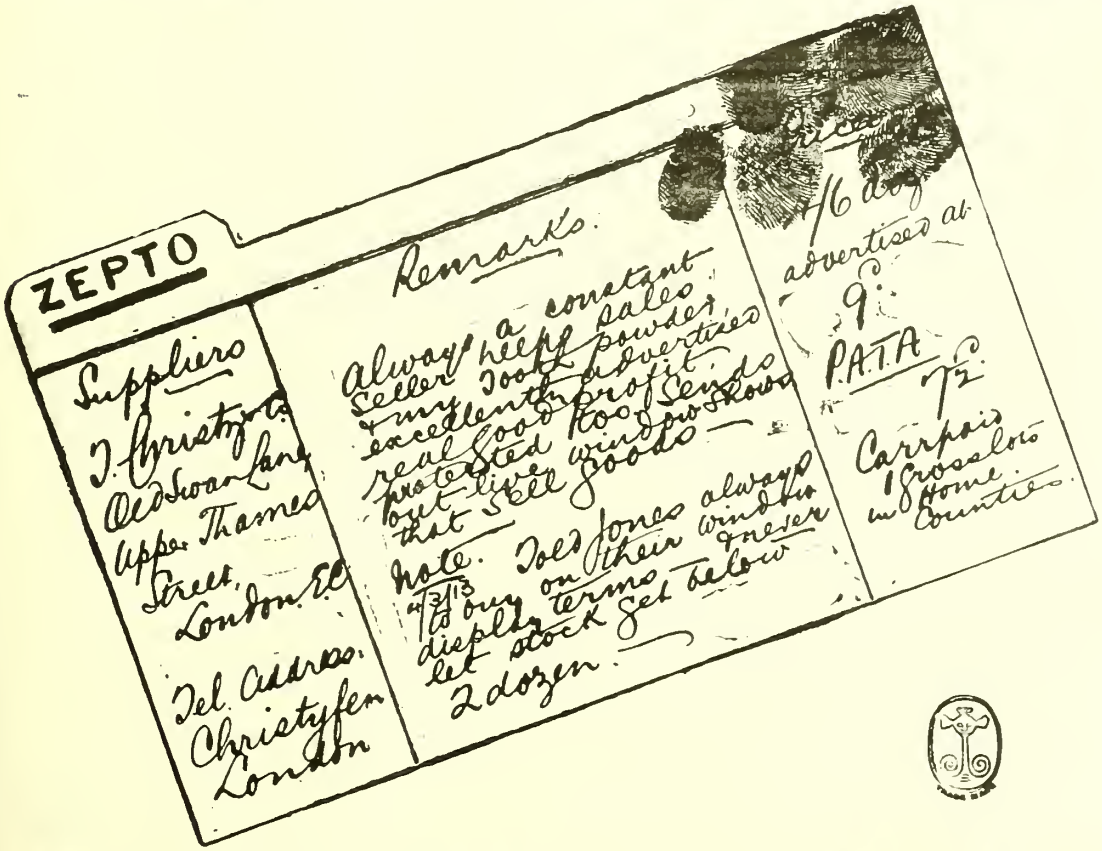
# A CARD FROM A CHEMIST'S INDEX,

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*Aqua Anethi Conc. 1–40, 1 lb. @ 2/11 lb.
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* ,, Rhœados pro Syr., 1 to 7, 5 lbs. @ 1/11 lb.
* ,, Rhei p.s. 1–7, 6 lbs. @ 2/2 lb.
* ,, Santali Co., 1 lb. @ 4/- lb.
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Ol. Gynocardiæ, 5 lbs. @ 4/- lb.; 1 lb. @ 4/3 lb.
Ol. Juniperi Bacc., B.P., 4½ lbs. @ 3/8 lb.; 1 lb. @ 4/1 lb.; Ligne Exot., 1 cwt. @ 1/2 lb.; 28 lbs. @ 1/4 lb.; 9 lbs. @ 1/5 lb.
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,, ,, Cryst. 25 oz. @ 1/8 oz.; 8 oz. @ 1/9 oz.

Bals. Copaibæ, pure, 44 lbs. @ 2/- lb.; 9 lbs. @ 2/1 lb.; 1 lb. @ 2/6 lb.
,, Peruv., P.B., 7 lbs. @ 7/6 lb.; 1 lb. @ 8/- lb.
,, Sulphur, 7 lbs. @ 8d. lb. [lb.
,, Tolut. B.P., 50 lbs. @ 2/8 lb.; 1 lb. @ 3/9
Benzo-Naphthol, 7 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.
Bismuth, P.B., Carb., 28 lbs. @ 8/8 lb.; 7 lbs. @ 8/10 lb.; 3 lbs. @ 9/1 lb.; 1 lb. @ 9/3 lb.; subnit. 1/- lb. less.
Boracic Mixture, 1 cwt. @ 43/6 cwt.
Borax, 1 cwt. @ 19/6; powder 1/- extra.
Butyl Chloral Hydras., P.B., 1 lb. @ 8/10 lb.

Camphor, English Flowers, "not artificial," 5 lbs. @ 2/- lb.; 7 lb. tabs. ½ oz., ⅓ oz. or ¼ oz. @ 2/- lb.; Crude, good white, about 92% as imported, 140 lbs. @ 1/7 lb.; 28 lbs. @ 1/8 lb.
Cocaine Hydrochlor., B.P., 25 ozs. @ 5/2 oz.; 4 ozs. @ 4/8 oz.; 1 oz. @ 5/6 oz.
Cream Tartar, 98% powder, 1 cwt. @ 101/- cwt.; 7 lbs. @ 1/- lb.

*Dec. Aloes Co. Conc. 1–2, 6 lbs. @ 2/9 lb.; Sinecroco, 6 lbs. @ 1/2 lb. [lb.
*,, Cinchonæ (Rubræ) Conc. 1–7, 6 lbs. @ 1/10
*,, Senegæ Conc., 6 lbs. @ 2/6 lb.

Emulsio Ol. Morrhuæ, 5 lbs. @ 11d. lb.
Ess. Bergam. (Oil), 12 lbs. @ 18/6 lb.; 1 lb. @ 19/6 lb.; not guaranteed absolutely pure.

*Inf. Buchu Conc., 1 to 7, 6 lbs. @ 2/2 lb.
* ,, Calumbæ Conc., 1 to 7, 6 lbs. @ 11d. lb.
* ,, Caryoph. Conc., 1 to 7, 6 lbs. @ 1/- lb.
* ,, Cascarilla Conc., 1 to 7, 6 lbs. @ 1/4 lb.
* ,, Cinchonæ Acid, 1 to 7, 6 lbs. @ 1/7 lb.
* ,, Gentianæ Co., 1 to 7, 6 lbs. @ 1/1 lb.
* ,, Quassiæ Conc., 1 to 7, 6 lbs. @ 9d. lb.
* ,, Rhei Conc., 1 to 7, 6 lbs. @ 1/6 lb.
* ,, Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 1/8 lb.
* ,, Senegæ Conc., 1 to 7, 6 lbs. @ 2/4 lb.
* ,, Valerian Conc., 1 to 7, 6 lbs. @ 1/3 lb.

Lin. Camph. P.B., 40 lbs. @ 1/- lb.; 9 lbs. @ 1/1 lb.
Lin. Sapo. Meth., 9 lbs. @ 7d. lb.
,, Tereb. Acet., B.P., 5 lbs. @ 1/- lb.
Linseed c. Oil, Crushed, 3 cwt. @ 17/6 cwt.; 1 cwt. @ 18/6 cwt.
*Liq. Ammonii Acetatis Conc. 1–7, 6 lbs. @ 8d. lb.; 1 lb. @ 1/- lb.
* ,, Ammon. Aromat., 6 lbs. @ 9d. lb.
* ,, Antim. Chlor. Pure, 8 lbs. @ 6½d. lb.
* ,, Arsenicalis, B.P., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.
* ,, Arsenii Hydrochlor., P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.
* ,, Bismuth, P.B., 6 lbs. @ 1/1 lb.
* ,, Copaiba Buchu et Cubeb, 5 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.
* ,, Easton., p.s. 1–3, B.P., 1 lb. @ 3/- lb.
* ,, Ferri Dialysatus, 6 lbs. @ 7d. lb.
* ,, Ferri Iod. p.s., 1–7, 1 lb. @ 7/6 lb.
* ,, Ferri Perchlor. Fort., P.B., 7 lbs. @ 4d. lb.
* ,, Ferri Phosph. Co. p.s., 1–7, 7 lbs. @ 1/6 lb.
* ,, Hamamelidis, B.P., 6 lbs. @ 1/1 lb.
* ,, Hypophosph. Co. p.s., B.P.C., 1 lb. @ 3/4 lb.
* ,, Iodi Fort, B.P., 5 lbs. @ 5/6 lb.

Pepsin, B.P., 10 lbs. @ 9/4 lb.; 1 lb. @ 10/- lb.
Phenacetin, P.B., pulv., 1 cwt. @ 2/11 lb.; 7 lbs. @ 3/1 lb.; 1 lb. @ 3/4 lb. [lb.
Phenazone, P.B., 7 lbs. @ 6/11 lb.; 1 lb. @ 7/6
Phenolphthalein, 7 lbs. @ 5/6 lb.; 1 lb. @ 6/- lb.
Plumbi Acetas, Druggists', 1 cwt. @ 34/6 cwt.; 7 lbs. @ 5d. lb.; Powder, 1½d. lb. extra.
Potass. Acetas. Gran., P.B., 28 lbs. @ 1/1 lb.; 7 lbs. @ 1/2 lb.
Potass. Iod., P.B., 1 cwt. @ 11/8 lb.; 14 lbs. @ 11/11 lb.; 3 lbs. @ 12/- lb.

Rad. Jalap, English Ground, 28 lbs. @ 1/3½ lb.; 7 lbs. @ 1/4½ lb.
Rad. Rhei, E.I., English Ground, 1 cwt. @ 1/3 lb.; 28 lbs. @ 1/6 lb.; 7 lbs. @ 1/7½ lb.

Saffron, Valentia, B.P., 7 lbs. @ 44/- lb.; 1 lb. @ 45/- lb.; 1 oz. @ 3/3 oz.
Shellac (Orange), 1½ cwt. @ 82/- cwt.; 7 lbs. @ 10½d. lb.
*Syr. Aurant. P.B., 7 lbs. @ 9½d. lb.
* ,, Easton, B.P., 7 lbs. @ 1/0½ lb.
* ,, Ferri Iodid. P.B., 7 lbs. @ 1/5 lb.
* ,, Ferri Phosph. Co., 7 lbs. @ 5½d. lb.
* ,, Hypophosph. Co. B.P.C., 7 lbs. @ 9½d. lb.
* ,, Pruni Virg. B.P., 8 lbs. @ 7½d. lb.
* ,, Rhamni, 7 lbs. @ 10½d. lb.
* ,, Rhei, P.B., 7 lbs. @ 8d. lb.
* ,, Scillæ, P.B., 7 lbs. @ 5d. lb.
* ,, Sennæ, P.B., 7 lbs. @ 8½d. lb.
* ,, Tolut, P.B., 7 lbs. @ 8½d. lb.

Ung. Acid. Boric, P.B., 28 lbs. @ 6d. lb.; Flav. 28 lbs. @ 4½d. lb.
,, Acid. Carbol., B.P., 28 lbs. @ 8d. lb.; 7 lbs. @ 9d. lb.; 1 lb. @ 11d. lb.
,, Gallæ, P.B., 7 lbs. @ 1/- lb.; 1 lb. @ 1/2 lb.; c. Opio, 7 lbs. @ 2/10 lb.
,, Resinæ, P.B., 28 lbs. @ 11d. lb.; 7 lbs. @ 1/- lb.

*Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.

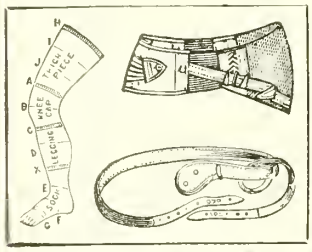
NOTE.—Only terms Net Cash with order without discount, or orders accepted through London Merchants or Bankers. Goods carriage forward; all packages free; Export cases extra.

# ALLIANCE DRUG & CHEMICAL CO., LONDON.

**Offices: 34 LEADENHALL STREET.**

***KINDLY DETACH THIS SHEET AND PLACE IT IN YOUR BUYING BOOK.***

# J. H. HAYWOOD, Ltd. CASTLE GATE NOTTINGHAM



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**SPECIALITIES FOR SUMMER:**

Elastic Hosiery, with or without Seams, suitable for Summer wear.
Trusses, Suspenders, Ladies' & Gents' Belts made from porous materials.
Elastic and Leather Wristlets, Arm-pieces and Elbow Supports, for Cricket, Tennis, Golf and Boating.
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India-Rubber Appliances and Druggists' Sundries.

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**YOU NEED OUR ILLUSTRATED CATALOGUE.**

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*Branch Depot:*
**30 Finsbury Pavement, E.C.**

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# THE BRYTSTELE OUTFIT

## For Safety Razors

Safety Razors kept in a Brytstele Bath do not require to be taken apart for cleaning or drying. Brytstele Solution keeps blades sharp for at least two months without stropping. Blades and Holders are kept bright, antiseptic, and free from rust.

## ATTRACTIVE OUTFITS AS ILLUSTRATED.

| | | |
|---|---|---|
| Retail 1s. 6d. each... | Trade | 13/- doz. |
| Refill Bottles (4 oz.) 8½d. each ... | „ | 5/6 „ |
| Refill Bottles (10 oz.) 1s. 4d. each ... | „ | 11/- „ |

Carriage paid on dozens only. Good Showcards, etc.

**THE BRYTSTELE Mfg. Co., 62 Oxford St., London, W.**

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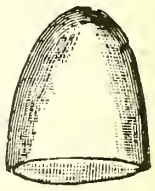
# RENDELL'S



## SOLUBLE QUININE PESSARIES.

THE WORLD-WIDE REPUTATION that these Pessaries have obtained since their invention by W. J. Rendell in 1885 has induced unscrupulous persons to place upon the market worthless and injurious compounds, with colourable imitations of W. J. Rendell's labels. To distinguish the genuine Pessaries from these fraudulent concoctions, see that the Registered Trade Mark and Number, in ***RED INK***, are upon each box thus:

Registered Trade Mark, without which none are genuine. No. 182,688.

*W. J. Rendell* No. 182,688

Registered also in Australia, India, The Cape, The Argentine, Germany, &c.

**IMPORTANT NOTICE AND CAUTION.**

Several injunctions in the High Court of Justice having already been obtained (reports of which have appeared in "THE CHEMIST AND DRUGGIST"), W. J. RENDELL'S SOLICITORS are instructed to take proceedings against all persons (Makers or Vendors) fraudulently using the name of W. J. RENDELL," "RENDELL," or any colourable imitation thereof in connection with Pessaries NOT manufactured by

# W. J. RENDELL,

***INVENTOR AND SOLE MAKER,***

**15 CHADWELL STREET, CLERKENWELL, LONDON, E.C.**

# SOLUBLE QUININE PESSARIES.

The "SAFEGUARD" Pessaries (of which we are sole proprietors) are compounded according to a formula which experience has shown to be absolutely the best for the purpose. Nothing but the purest drugs being used in them, they never fail, and can be recommended to customers with the utmost confidence.

| | | | £ | s. | d. |
|---|---|---|---|---|---|
| PRICES | 1 Dozen in Box, with directions ... ... | Per Dozen Boxes | 0 | 10 | 6 |
| | ,, ,, in 3 Dozen lots ... ... | ,, | 0 | 10 | 0 |
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***Special Quotations to Shippers and Wholesale Dealers.***

**5** % discount allowed for prompt cash off above prices. Carriage paid on orders of **£2** and upwards.

**We are the right House for Bandages, Catheters, Clinical Thermometers, Enemas, Elastic Hosiery, Hot-Water Bottles, Injection Syringes, Pessaries, Splints, Sponge Bags, Trusses, Water Beds, Water and Air Cushions, Waterproof Sheeting, and every description of Rubber Goods.**

OUR GOODS ARE RIGHT. MONEY BACK IF NOT SATISFIED.

PRICE LIST containing reduced prices for Enemas, Rubber Sponges, Rubber Cushions, Clinical Thermometers, etc. etc., post free.

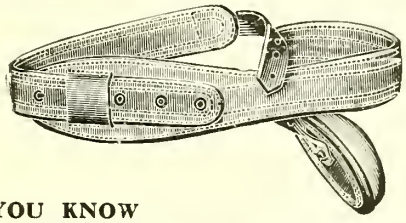
## BURGE, WARREN & RIDGLEY, LIMITED,

**91 & 92 GREAT SAFFRON HILL, LONDON, E.C.**

# The "Hernicura."

## "COMFORTABLE."

Reg. No. 627975 (1913). Patent No. 23241 (1913).



**YOU KNOW**
**how often you have trouble in fitting customers with trusses, and how frequently dissatisfaction is expressed.**

**TRY**
**the "Hernicura" Trusses. They are easy to fit, possess great adaptability, give absolute satisfaction, and yet are most reasonable in price.**

**A 33-inch Truss will adjust from 30 to 36 inches. Head is also adjustable.**

**Inguinals 54/- Dozen. Scrotals 72/- Dozen.**

*Write for Price List.* *Specimens on appro.*

JOHN MORGAN DAVIS & SONS,
TRUSS & SURGICAL APPLIANCE MAKERS,
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The Original and only Genuine

# Allcock's

**POROUS PLASTERS**

A REMEDY OF 60 YEARS' STANDING.

**Allcock's Plasters**
**Allcock's Corn and Bunion Plasters**
**Brandreth's Pills**
*The Three Reliables.*

**A HANDSOME SHOWCARD will be sent free of cost and post paid on application.**

**ALLCOCK MANUFACTURING COMPANY**
**22 Hamilton Sq., Birkenhead.**

"Sold all round the World."

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# H. POTHS & CO., 26 & 27 FARRINGDON STREET, LONDON, E.C.

**Shop Bottles and Jar with Vitrified Labels, Show Bottles,**

Perfume, Screw-capped, and Medical Bottles of all kinds. Graduated Measures. Druggists' Sundries.

*ILLUSTRATED CATALOGUES FREE.*

## UNIVERSAL BOTTLE CO.
**25 & 26 ALDGATE, LONDON, E.C.**

**DISPENSING BOTTLES.**

| 1 oz. | 2 oz. | 3 oz. | 4 oz. | 6 oz. | 8 oz. | 10 oz. | 12 oz. | 16 oz. | 20 oz. |
|---|---|---|---|---|---|---|---|---|---|
| 5/6 | 6/6 | 7/- | 7/6 | 8/- | 8/6 | 12/- | 12/6 | 17/- | 20/- |

**KAY'S 3-PANEL COUGH MIXTURE BOTTLES.**

| 1¼ oz. | 2½ oz. | 5 oz. |
|---|---|---|
| 6/6 | 7/- | 9/- |

**POISON BOTTLES (Blue or Actinic).**

| 1 oz. | 2 oz. | 3 oz. | 4 oz. | 6 oz. | 8 oz. | 10 oz. | 12 oz. | 16 oz. | 20 oz. |
|---|---|---|---|---|---|---|---|---|---|
| 5/6 | 6/6 | 7/6 | 8/6 | 11/- | 12/- | 17/- | 18/- | 21/- | 25/- |

**VIALS, Plain and Lettered Teaspoons.**

| ½ oz. | 1 oz. | 1½ oz. | 2 oz. | 3 oz. | 4 oz. |
|---|---|---|---|---|---|
| 3/6 | 4/- | 4/9 | 5/6 | 7/6 | 8/6 |

In 1 gross boxes 6d. extra.

TERMS: Cash with order 5% discount; or 2½% on delivery, and net 30 days. £3 and upwards, carriage paid, packages free. Goods well packed. No allowance for breakage.

## TURKISH OPIUM

*Direct from the Growers.*

**PURE NATURAL GUM**

Free from adulteration. Supplied in 11lb. tins by

**GEORGE GATHERAL,** British Post Office Box No. 193,
**CONSTANTINOPLE - TURKEY.**

*Post samples sent on application.*

## A BOON
*For Manufacturing Chemists & Druggists.*

**THE AIR-TIGHT CAPSULES**

CO., LIM., invite your attention to

***THE PHŒNIX HERMETICAL CLOSURE.***

*The Ideal Cap for all kinds of Glass Packages such as Malt Extract, &c.*

The following firms, amongst others, have adopted the Phœnix system, in conjunction with the Firtree disc with unqualified success.

FIRTREE ANTISEPTIC

Trade Mark.

**Messrs. THE BRITISH DIA MALT CO.**
**Messrs. GOODALL, BACKHOUSE & CO.**
**Messrs. CALDERS YEAST CO., LTD.**
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This Firtree disc is used in conjunction with Phœnix and Screw Caps for Malt Extracts, &c., and is supplied under registered Trade Mark, and is guaranteed pure for use with Food-Stuffs according to the Act.

Fullest information with quotations on application.

**Offices and Showrooms** } **317, 318, 319 DASHWOOD HOUSE, NEW BROAD ST., LONDON, E.C.**

## BOTTLES:
**:: YORKSHIRE MAKE ::**

**DISPENSING as illustrated, Plain or Graduated.**

| 1½ & 2 oz. | 3 & 4 oz. | 6 & 8 oz. | 10 oz. | 12 oz. |
|---|---|---|---|---|
| 7/9 | 8/- | 9/- | 13/- | 14/6 |

| 16 oz. | 20 oz. |
|---|---|
| 19/6 | 21/- per gross. |

**GREEN PANELLED (three sides)**
1/- per gross extra to above prices up to 8 oz., 2/- extra beyond.

**GREEN PANELLED HEAVY (for Cough Mixtures)**
2½ oz. **8/9**; 5 oz. **10/-** per gross.

**POISON. Oval Ribbed, Pale Green (for Ammonia)**

| 3 & 4 oz. | 6 & 8 oz. | 10 oz. | 12 oz. | 16 oz. | 20 oz. | |
|---|---|---|---|---|---|---|
| 9/6 | 10/6 | 13/6 | 15/- | 19/6 | 21/6 | per gross. |

VIALS and HEXAGON POISONS at proportionately low prices.

**TERMS: NET CASH 7 DAYS. CRATES 1/- EACH.**

Carriage paid on 6 gross assorted crates up to 100 miles ex Leeds (small extra charge beyond that distance).

**THOMAS SWALES,**
**24 BUTTS COURT, LEEDS.**

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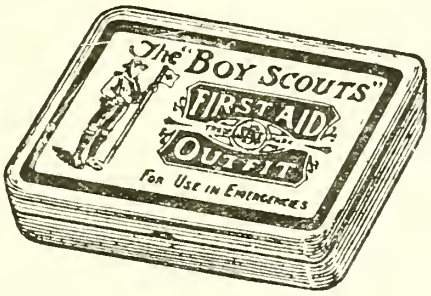
A Fast Selling Line.




1/-

7/6 per Doz.
*(Subject)*

# BARCLAY & SONS,
LIMITED,
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**Established 1839.**

"STAG" BRAND
## SURGICAL DRESSINGS

**Absorbent Cotton Lints, Wools, Gauzes, Roll Bandages,** either plain or medicated with **Antiseptics** according to the directions of Lord Lister.

**Camgee Tissue,** of which ROBINSON & SONS, LTD., are Sole Makers.

**Robinson's Dressing (Patent)**—Alternate layers of Absorbent Cotton Wool and Cellulose.

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**Cellulose Wadding**—Manufactured from pure White Pitch Pine Fibres.

**Wood Wool Wadding**—Pinewood Fibres intimately mixed with Absorbent Cotton Wool.

**Wood Wool Tissue**—Same with External Gauze Layers.

**Aseptic Dressings** of all kinds, packed under ROBINSON'S PATENT.

ABSORBENT SPONGES AND GAUZE PADS.
SANITARY TOWELS FOR LADIES.
Speciality—MENE TOWELS.
ACCOUCHEMENT SHEETS, Absorbent yet Waterproof.
32 x 32. 26 x 20. 24 x 18.
COMPRESSED DRESSING A SPECIALITY.

## ROBINSON & SONS, LTD.
ARE ACTUAL SPINNERS, WEAVERS, AND BLEACHERS,
CHESTERFIELD.
LONDON OFFICE:
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## Expurgo Anti-Diabetes

**The only reliable and thoroughly satisfactory Remedy for Diabetes-Mellitus which has a record of complete cures.**

REPORT FROM A PROMINENT PHYSICIAN.

I am satisfied your preparation has cured several of my patients. Expurgo Anti-Diabetes is particularly effective in combating and neutralising the diabetic poisons and in completely eliminating the sugar excretion characteristic of this disease.

**The Medical Faculty is also recommended to try Expurgo Lapis—a particularly valuable preparation in the treatment of Gall Stones, Kidney and Bladder Stones and Gravel.**

Expurgo Anti-Diabetes, per bottle 8/-, less 25%
Expurgo Lapis - per bottle 6/-, less 25%
*Carriage paid on orders of 1 dozen.*

**THE EXPURGO MANUFACTURING CO.,**
815 North Clark Street, CHICAGO, ILL., U.S.A.

Distributing Agents: Rocke, Tompsitt & Co.,
4 Redcross Street, London, E.C.

# GOOD!

# IT'S MASON'S

# EXTRACT OF HERBS.

**The Drink for the Masses.**

**Millions of Glasses used daily by workers all over the Empire.**

**A CONSTANT USER SAYS:**

Scole, Norfolk.

Gentlemen,—For years I took a glass of Malt Liquor before dinner to create an appetite, as I was a poor feeder. Some months ago I heard of your Extract for making Beer. I gave it a trial and have ever since used it as a substitute for the other, and the result is most satisfactory. After being bottled a few days it is as bright and sparkles like bottled Ale. Since taking it I have been free from the cruel pains of Indigestion, from which I had suffered a long time. Now instead of going to the "public house" in the evening for my usual glass, I smoke my pipe at home, drink my Herb Beverage and enjoy it, go to bed and sleep soundly. I have recommended it to many others, who have tried it with like results. Your Agent here thought I ought to give you a testimonial.

I am, Sirs, yours truly, J. W.

Besides being a grand refresher, Herb Beer made from

## MASON'S EXTRACT OF HERBS

is cheap. For 2d. you can make a gallon of the most wholesome and invigorating beverage you ever tasted.

*Please allow us to Sample and Quote—*

**Citrate Magnesia**

**Health Salt**

**Salines**

**Liver Salt**

**Blood Salt**

**Sulph. & Sarsap. Salt**

**Lemonade**

**Crystals, &c.**

**NEWBALL & MASON,**
**NOTTINGHAM.**

**Improve Your Sales**
by using

# BILZ-SINALCO
**ESSENCE**

Sold in Concentrated Form or as Syrup.

Protected by Patents.

Celebrated in every Civilised Country.

Licences granted for Districts.

Makes Nature's own Cooling and Refreshing Drink

# "PROSET"

*Apply—*

SINALCO CO., DETMOLD (Germany)

# TIDMAN'S SEA SALT.

**ON P.A.T.A. LIST. INCREASED PROFITS TO ALL WHO KEEP IT IN STOCK.**

*Orders of Twenty Shillings value and upwards Carriage Paid—Cases Free, less 2½ % Discount for Cash.*

| | Advertised Price. Per Box. | | Minimum Retail Price. Per Box. | | Minimum Wholesale Price. Per Gross. |
|---|---|---|---|---|---|
| **1d. Packets** | 1/- | ... 12 in box | 11d. | ... | 8/6 |
| **2d. ,,** | 2/- | ... ,, | 1/10 | ... | 16/9 |
| **1d. linen Bags** | 1/- | ... ,, | 11d. | ... | 8/6 |
| **2d. ,, ,,** | 1/- | ... 6 in box | 11d. | ... | 16/9 |
| **Boxes,** about 1½lb. | 4d. | ... | 3½d. | ... | 2/10 pr. doz. |
| ,, ,, 3½ ,, | 8d. | ... | 7d. | ... | 5/8 ,, |
| ,, ,, 7 ,, | 1/2 | ... | 1/- | ... | 10/- ,, |
| ,, ,, 14 ,, | 2/- | ... | 1/10 | ... | 18/3 ,, |

**SINGLE BAGS of following 3 sizes sent CARRIAGE PAID to any place in the United Kingdom, so that there is no Stock to hold.**

| | Advertised Price. | | Minimum Retail Price. | | Minimum Wholesale Price. |
|---|---|---|---|---|---|
| **28-lb. Bags** (or Boxes) | 3/- each | ... | 3/- | ... | 2/6 each |
| **½-cwt. Bags** | 5/6 ,, | ... | 5/6 | ... | 4/7 ,, |
| **1-cwt. Bags** | 10/- ,, | ... | 10/- | ... | 8/4 ,, |

The following are also sent, carriage paid, cases free, to any place in the United Kingdom, for net cash: 4—7 lbs. Boxes, **3/6** the lot; 6—7 lbs. Boxes and upwards at **10/-** per dozen (list price). Orders for assorted sizes to the value of **7/6** and upwards.

**TIDMAN'S SEA SOAP, beautifully perfumed.**

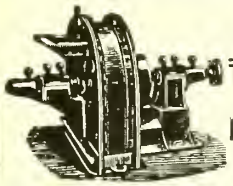
| | Advertised Price. | | Minimum Retail Price. | | Minimum Wholesale Price. | |
|---|---|---|---|---|---|---|
| **Box** of 3 large Tabs. | 1/- each | ... | 10½d. | ... | 7/6 | per doz. boxes. |
| ,, 6 small Tabs. | 6d. ,, | ... | 5d. | ... | 3/9 ,, | ,, |
| **Bars** about ½-lb. | 5d. ,, | ... | 4d. | ... | 3/- | per doz. bars. |
| ,, ,, 1-lb. | 10d. ,, | ... | 8d. | ... | 6/- ,, | ,, |

Accounts Monthly Net due 10th of following month. Terms for Seidlitz Powders, Pinnacle Soap Stands, Toilet Soaps, &c., sent on application.

**TIDMAN & SON, Ltd., Wapping, London, E.**

# GRINDERS

***For All Purposes.***



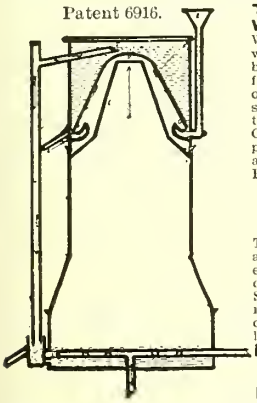
Write for Lists.

**THE HARDY PATENT PICK CO. Ltd.**
SHEFFIELD, ENG.

Have the claims against you for Workmen's Compensation been light? If they have, the "London and Midland" will give you a very favourable quotation. We have special schemes for dealing with this branch of insurance which show a great saving to large employers of labour. Est. 1859.

Write to-day for Prospectus "Q 5" to the London and Midland Insurance Co., Ltd., 39, 40, 41, New Broad St., London, E.C. The Oldest Independent Fire Office.

Patent 6916.



**TO MANUFACTURING AND WHOLESALE DRUGGISTS, &c.**

We beg to call attention to the fact that our well-known Patent Stills are made for heating by steam pressure. Where this is available it forms a very cheap and efficient method of obtaining distilled water. Any pressure will suit from 10 to 200 lb., made in various sizes to produce from 1½ to 15 gallons PER HOUR. Cost of distilled water made this way is practically nil. As with our Gas Stills, these are perfectly automatic. Prices as below:—

For producing up to

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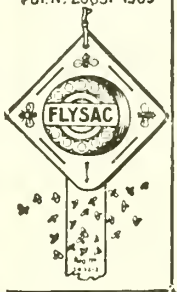


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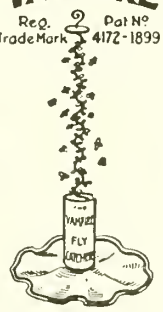


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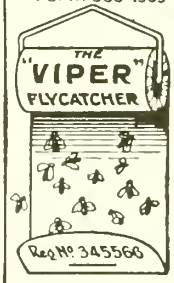


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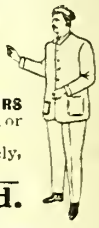
Fig. 1.

Fig. 2.

Fig. 3.



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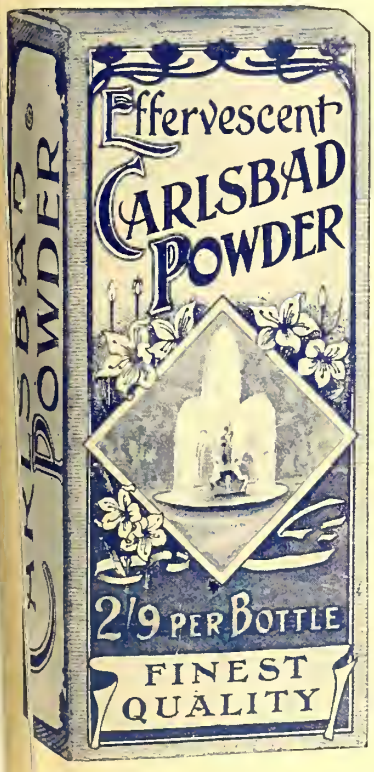
# LORIMER-MARSHALL'S

## PACKED SPECIALITIES FOR YOUR SUMMER TRADE




6-oz. Plug-stoppered Bottles, cartoned at 8/6 per doz.

Without carton, 7/6 per doz.

## Carlsbad Powder, Health Salt and Salines, Granular Preparations.

In attractive packings bearing customer's own name.

Special attention is directed to our new packing for Health Salt. The tins are absolutely airtight and have lacquered Tops and Bottoms. The wrapper, which is in the three-colour process, is a work of art, and the general effect is far superior to the ordinary decorated tin.

Filled with a thoroughly effective and reliable Saline, guaranteed to keep good in any climate. It contains a slight excess of Tartaric Acid, which gives the pleasant sharpness so much desired. It is a fine white, dry, mobile powder, dissolving with sustained effervescence.

**oz. Tins, 30/- per gross; 8 oz. Tins, 54/- per gross.**

In white flint-glass rounded-corner stoppered Cheltenhams, each enclosed in a card case, with elegantly tinted and engraved wrappers.

**8 oz., dozen 7/-; 12 dozen 6/6**
(Without carton and wrappers, 6/- gross less.)

**LORIMER-MARSHALL, Ltd.,** *Offices and Showrooms:* 12 TOWER HILL, LONDON, E.C. *Factories:* Britannia Works, COLDBLOW, HATCHAM, S.E.

Telegraphic Add.: "Lorimarsco, Bilgate, London." Office Telephone: CENTRAL 13414. Works Telephone: NEW CROSS 2119.

# Frozen Foam

(REGD. TRADE MARK).

The Toilet Requisite "PAR EXCELLENCE" for the Summer.

NOW PACKED IN FOUR DIFFERENT STYLES.

## "READY FOR RETAIL."

STYLE No. 1. Attractive lithograph label and carton, Blue and White.

STYLE No. 2. Neat letterpress label and carton, Pink.

STYLE No. 3. "Polar Bear" with appropriate descriptive label and handsome carton of same design, Blue and White.

Small size, to retail at 6d. each,

**3/9**

per dozen.

(P.A.T.A.)

STYLE No. 4.

Large size, to retail at 9d. each,

**5/9**

per dozen.

(P.A.T.A.)

On this label the words "FROZEN FOAM" are embossed in gold, the background being pale green, with the sea shooting spray high in the air.

(NO CARTON.)

SPECIAL TERMS FOR WINDOW DISPLAY.

## The British Drug Houses, Ltd.

London.


Printed for the Proprietors by SPOTTISWOODE & CO., LTD., New-street Square; and Published by the Proprietors at 42 Cannon Street, London, June 13, 1914.